CALIFORNIA INSTITUTE OF TECHNOLOGY

EARTHQUAKE ENGINEERING RESEARCH LABORATORY

STRONG MOTION EARTHQUAKE ACCELEROGRAMS

DIGITIZED AND PLOTTED DATA

VOLUME II - CORRECTED ACCELEROGRAMS AND INTEGRATED GROUND VELOCITY AND DISPLACEMENT CURVES

PART G - ACCELEROGRAMS IIG106 THROUGH IIG114

EERL 73-52

A REPORT ON RESEARCH CONDUCTED UNDER A GRANT FROM THE NATIONAL SCIENCE FOUNDATION

PASADENA, CALIFORNIA

NOVEMBER 1973

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ABSTRACT

The first set of twenty corrected earthquake accelerograms was published in September 1971, as Volume II, Part A, Report No. EERL 71-50, the first report of the Volume II series. That issue also contained introductory material and background information describing the types of corrections used. The corresponding uncorrected data appeared earlier in Volume I, Part A, Report No. EERL 70-20. Both of these reports, containing references related to the records themselves and the various procedures, should be referred to by all users of the data. This issue, Volume II, Part G, Report No. EERL 73-52 continues with the accelerograms obtained during the San Fernando Earthquake of February 9, 1971 and includes one record each from Caltech's Seismological Laboratory and Athenaeum in Pasadena and the Palmdale Fire Station; and two records each from Caltech's Millikan Library and Jet Propulsion Laboratory in Pasadena, and the building at 611 W. Sixth Street in Los Angeles. The uncorrected versions of the accelerograms in this issue appeared earlier in Volume I, Part G, Report EERL 72-20.

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PREFACE TO VOLUME II, PART G

This issue of corrected accelerograms and integrated ground velocity and displacement curves contains data from the San Fernando, California, Earthquake of February 9, 1971. The corrected data for records from this earthquake appeared first in Volume II, Part C, Report No. EERL 72-51 and this continuation includes records from the following locations:

1. Caltech Seismological Laboratory, Pasadena
2. Caltech Athenaeum, Pasadena
3. Caltech Millikan Library, Pasadena (2 records)
4. Caltech Jet Propulsion Laboratory, Pasadena (2 records)
5. 611 W. Sixth Street, Los Angeles (2 records)
6. Palmdale Fire Station, Palmdale

The uncorrected versions of the accelerograms in this issue appeared in Volume I, Part G, Report No. EERL 72-20.

Reference may be made to Volume II, Parts A and B, Report Nos. EERL 71-50 and 72-50 for introductory material and references to papers discussing various details of the processing and computing problems. Several comments applying to every report of the Volume II series of corrected digitized data are included in the next section.

A separate section in this report entitled "Current Assessment of Long Period Errors" describes the results of a recent investigation of long period ground displacements calculated from recorded accelerations. During the course of this study it became evident that the procedures for preparation of 70 mm and, to a lesser extent, 35 mm film records introduced spurious excitations at periods close to the duration of the sectional enlargements. These effects have been removed from all of the 70 and 35 mm film records by filtering with a long period limit of 8 seconds

rather than the standard cut-off period of 16 seconds. This report contains only 70 mm film records all of which have consequently received this filtering with the 8-second long period cut-off. Subsequent calculations of response and Fourier spectra, published in the corresponding parts of Volumes III and IV reflect this altered frequency band. A complete list of the records processed with the 8-second long period cut-off is included in the separate section in this report.

An additional list is included showing those low-amplitude accelerograms which have been deleted from the analyses of Volumes II, III, and IV. None of the Part G records are included in this list.

We are grateful to the staff members of the Earthquake Engineering Research Laboratory who at all stages of the project continue to devote their time and attention to producing these reports and the corresponding cards and tapes. In particular we are indebted to Mr. Vincent Lee and Mr. James E. Justiss for carrying out the computing side of the project with such enthusiasm, to Miss Barbara Turner and Miss Sharon Vedrode for typing and editing, and to the staff of the Willis H. Booth Computing Center and the Graphic Arts Facilities. We appreciate the major support from the National Science Foundation that has made the entire project possible, and the continued contributions from the Earthquake Research Affiliates program of the California Institute of Technology.

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PREFACE TO THE VOLUME II SERIES

The following includes some general background information describing the Volume II series.

Part A of Volume II, Corrected Accelerograms and Integrated Ground Velocity and Displacement Curves, Report No. EERL 71-50, was published in September 1971 and contained in a general introduction to the series, detailed information on the methods and procedures used which should be consulted by all users of the data. Part B of Volume II, Report No. EERL 72-50, which appeared in February 1973, contained additional references to papers discussing various details of the processing and computing problems. Part C, Report No. EERL 72-51, began the presentation of corrected data for the unusually important series of accelerograms obtained during the San Fernando Earthquake of February 9, 1971. All the records considered suitable for standard digitizing will be included in the issues following Part C.

The format of presentation of the results at the end of this second stage of data processing is the same as in Volume II, Part A. The plots of acceleration, velocity, and displacement appear first, with details of the earthquake, the recording site, and the peak values in the headings.

A description of the naming of component directions for the records was given in Volume II, Part B. Consistent with this, the component direction, where it appears in this report, refers to the direction of the transducer pendulum motion for the trace to be deflected "up" on the record when viewed in the normal way with time

increasing from left to right. During earthquake acceleration measurements the pendulum responds dynamically to an "inertia force" whose direction is opposite to that of the acceleration of the instrument base and it follows that the true ground acceleration will be opposite to the pendulum motion defined above. Consequently, in the following plots the y-axis scale is inverted so as to retain both the familiar pattern of the accelerograms and the listed component direction. The printout of the corrected accelerograms appears next, in units of mm/sec/sec, at equal time intervals of 0.02 seconds. Identification labels, instrument characteristics, peak values, and initial values are in the headings for each component.

It is apparent in some of the displacement plots in this entire series of Volume II reports that some long period noise is still present in the published data. There are no components remaining with periods longer than the cut-off period of 14 seconds (and roll-off termination at 20 seconds), but it is evident that for some records this cut-off period, taken as standard for all records, is in fact too long. The cause for this lies in the very low amplitude of acceleration for much of the duration of some of the records and the consequent lowering of the signal to noise ratio. This noise arises primarily from random digitization noise, and is independent of the acceleration amplitudes. With this in mind, the displacement plots indicate that a cut-off period lower than 14 seconds should be used to remove these components from the acceleration data. It is clear, of course, that in routine processing of accelerograms, such as those mentioned above, it is not practical to examine each earthquake accelerogram in

sufficient detail to permit selection of the cut-off period optimal for that particular record.

The investigation described in this report under the title "Current Assessment of Long Period Errors" has led to the elimination of a number of very low amplitude accelerograms from further processing in Volumes II, III, and IV. For these particular records the resulting displacements are expected to be dominated by noise at periods down to as low as one second.

All of the reports constituting the Volume II series mention specific references that discuss particular aspects of the various earthquake records. A list of these reports and other publications of the Earthquake Engineering Research Laboratory appears at the back of this issue, including the EERL Report Number and the Accession Number, with which they are obtainable from:

National Technical Information Service
U. S. Department of Commerce
Springfield, Virginia 22151

CURRENT ASSESSMENT OF LONG-PERIOD ERRORS

Introduction

The problem of long-period errors arising from the techniques utilized in processing the data presented in the series "Strong Motion Earthquake Accelerograms" has been the subject of considerable research at the Earthquake Engineering Research Laboratory of the California Institute of Technology (Trifunac et al, 1973a*). The results of this analysis, primarily concerned with the random and systematic errors in the digitizing process, indicated that under typical conditions displacement amplitudes, as obtained from the doubly integrated corrected accelerograms, would be uncertain at the level of a centimeter or so at periods near 15 sec. The large number of 70-mm film records of the San Fernando, California, earthquake are atypical in several respects, and it is appropriate in this part, which initiates the processing of such records in the series "Strong Motion Earthquake Accelerograms," to estimate the long-period error in the data derived from such records. At the same time, the San Fernando earthquake provided several opportunities to investigate the magnitude of long-period errors in a way that is largely independent of either the particular instrument or data processing techniques.

In view of these developments and their bearing on the results presented in this series of reports, we describe here our current

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* Trifunac et al (1973a) provides the most recent evaluation of the long-period errors arising in the processing of strong motion accelerograms. Preliminary versions to and summaries of this study have been presented as Trifunac (1970), Trifunac (1971a), Trifunac (1971b), and Trifunac et al (1973b).

assessment of long-period errors in terms of uncertainties in the long-period (5-15 seconds) displacements calculated from recorded accelerations. We briefly recapitulate the conditions under which a "typical" accelerogram is processed to estimate typical long-period errors in this calculated displacement. These estimates are then examined with several consistency checks provided by the wealth of data obtained from the San Fernando earthquake. We then describe the special conditions necessary to process a 70-mm film record and note the related problems that subsequently arise. We conclude with the alterations in the routine analysis performed to eliminate these particular problems.

Expected Long-Period Errors in a Typical Accelerogram

Trifunac et al (1973a) considered five data sets derived from independent digitizations of the same straight line and their difference from the mean data set. The mean data set serves as a baseline for the five "accelerograms." With the application of "typical" operational characteristics (recording speed 1.11 cm/sec, sensitivity 16.5 cm/g, record length 60 cm, and digital capability 312 pts/cm) to these data, individual harmonic amplitudes of displacements calculated from any "baseline-corrected accelerogram" at periods near 15 sec were approximately 6 mm.* The predominant source of this error was the random digitization error with amplitude of approximately 1 digital point.

* The determination of these "typical" operating conditions was estimated by Trifunac (1970) on the basis of the 100 accelerograms originally considered for analysis; as is pointed out below, the great bulk of the San Fernando earthquake accelerograms were recorded at sensitivities considerably less than the "typical" sensitivity, 16.5 cm/g.

This serves as a minimum error for displacements at long (5-15 sec) periods, since a general long-period pulse represents a sum over several individual harmonics. The standard deviation of the doubly integrated "acceleration" data is approximately 20 points, corresponding to approximately 3 cm (Trifunac et al, 1973a, p. 180-181). Inasmuch as this function took the approximate form of a step-function, its amplitude should be expected to overestimate the error in band-limited displacements. The frequency band limit for the data presented in "Strong Motion Earthquake Accelerograms" is presented in Figure 23 of Trifunac et al (1973a) in the form of an Ormsby filter with high frequency cut-off f_{HC} = 25 Hz and low frequency cut-off f_{LC} = 0.07 Hz. For an accelerogram subject to "typical" operating and "routine" processing conditions (Trifunac et al, 1973a), the error in long-period displacement is estimated to be 1-2 cm.

It is important to recognize the provisional aspects of this error estimate. First it is based on a record duration of 60 seconds. While this is a reasonable estimate of the record length of the older accelerograms (Trifunac, 1970), the number of accelerograms with duration considerably shorter than 60 seconds is rapidly increasing, both because different mechanical specifications of available instruments can produce highly variable record lengths for the same earthquake recorded at the same site and because the deployment of closely-spaced accelerometer arrays is generating a considerable number of small duration records from small magnitude shocks. The ability to extract accurately long-period information clearly depends on the record length; it is unrealistic to expect accurate 15-second information from a record less than 30 seconds long.

Second, the error estimate is in any case statistical. Errors considerably greater than the above estimate, as well as considerably less, can be expected with a finite probability. This possibility should not be ignored in those investigations, dictated by special site or structural circumstances, which rely wholly or largely on the analysis of a single record.

Finally, the exact nature of the error estimate depends on the details of the displacement pulse with which it is associated. The estimate of 1-2 cm at long-periods is given with the understanding that a general displacement pulse represents more than one individual harmonic but less than a sum over a broad band. In the absence of a more detailed understanding of the expected pulse shape, this estimate is necessarily approximate.

A Selection of San Fernando Earthquake Data

If a set of stations is spaced at distances small compared to the wavelengths of a frequency band of interest and if the variation of material properties is not appreciable within the immediate vicinity of the array of stations, there should be little distortion of a long-period disturbance as it crosses the array. For example, for periods of 3-4 sec and greater, with wavelengths of approximately 10 km or greater, there should be little distortion of signal amplitudes across an array of dimension 1-2 km or less. In the limit of infinitesimal station spacing, this correlation must be exact. Any differences in long-period amplitudes must then be attributed to instrumental or processing errors.

Figure 1 displays the site locations of two groups of closely-spaced accelerometers in central Los Angeles. Table 1 summarizes site address and instrumental location, instrument type, record length, and building height information. Figure 2 displays three components of the calculated displacement at the instrument location obtained at the seven localities of Area 1. We anticipate that structural vibrations will not significantly affect the computed displacements at these localities and regard them as actual ground displacement, distorted to some extent by the data processing techniques.

The AR-240 records have an operating sensitivity of approximately 7.6 cm/g. The MO-2 records have an operating sensitivity of approximately 1.5 cm/g on the horizontal traces and 2.5 cm/g on the vertical traces; the operating sensitivity of the SMA-1 record is 1.9 cm/g. Prior to digitization, the MO-2 records were enlarged by a factor of 3 and the SMA-1 records by a factor of 4. In the form to be processed then all records are at a sensitivity of about one-half the "typical" value quoted in the last section. Thus, the expected errors in long-period displacements should be twice as much, i.e., 2-4 cm, other factors being equal.

The ground displacement data have been temporally shifted with respect to a short-period arrival prominent on the horizontal components of acceleration and velocity; its arrival is at 5.9 seconds on the time scale of Figure 2. Inasmuch as this phase is barely discernible on the displacement records, it may be viewed as a time calibration largely independent of the large displacements occurring at 7-25 seconds which, incidentally, have been very precisely aligned

by this time shift. All instruments are oriented in the north-south, east-west, and vertical directions. Orientation of particular components then involves only polarity compatibility. Irrespective of component directions indicated in Figure 2, ground displacement in the direction up (first column), north (second column), and east (third column) are positive along the positive ordinates.

The records of Figure 2 have been obtained in the same manner as the other displacement records previously published in this series. Between 7 and 25 seconds there are clearly discernible phases, correlatable across each component set. Agreement is particularly good on the east component, with some indication of later spurious (non-correlatable) phases with amplitudes of several centimeters. On the north and vertical components, clear distortion of the main energy group (between 7 and 25 seconds) has occurred relative to the other components. On the vertical component of E075 and D065, long-period motions of several centimeters amplitude are neither correlatable with each other nor with the other two AR-240 records (E083 and P214). Similar distortion is apparent on the north components of the four AR-240 records. The two MO-2 displacement records (S265 and S266) possess relative discrepancies comparable to those obtained from the AR-240 instruments. The vertical component of displacement obtained from the SMA-1 (J148) is badly distorted relative to the other vertical components. While this may be due in part to the short record length, the relative agreement of the horizontal components is considerably better.

Figure 3 presents the same data, but the long-period limit of the Ormsby filter has been changed from 14 to 8 seconds; harmonics with periods greater than 10 seconds have been removed. The relative agreement between component sets has been considerably improved; discernible and correlatable phases with amplitudes of two centimeters and less occur up to 30 seconds after triggering. In the period range of several seconds to eight seconds, it thus seems that computed displacements are accurate to a centimeter or so. Moreover, the computed displacements of Figure 3 are not discernibly influenced by instrumental type, record length, building height, or triggering time, within the available variations of these parameters.

Within the assumptions and restrictions of this comparison, it is difficult to understand why energy in the several- to eight-second band would be more coherent than energy at longer periods. The obvious conclusion is to associate the relative distortion and non-correlatable phases of Figure 2 to errors in the determination of long-period (10-15 second) displacements. In this period range, Figure 2 suggests the magnitude of the error is several (2-4) centimeters. While it is difficult to make this estimate more precise on the basis of such comparisons, it is hardly a surprising result in view of the results of Trifunac et al (1973a), corrected for the sensitivity difference.

Figure 4 presents a similar comparison of three components of ground displacement (up, N14E, and S76E on the positive ordinate) from five interconnected instruments on Lake Isabella Dam. Any one of the 15 rows is the same component of motion at the same site, and each column represents displacements for each component filtered at

different long-period cut-offs. The left, middle, and right columns have been processed for f_{LC} = 0.100, 0.125, and 0.167 Hz, respectively. There is very little correlatable signal in Figure 4, although a short-period signal beginning at 17 sec (e.g., N76W, f_{LC} = 0.167 Hz) is barely discernible. In the period range of several seconds to eight seconds, the noise level in displacement is approximately 1 cm; at ten seconds, the error is near 2 cm. Given this level of noise, it is not surprising that a high frequency signal with millimeters of amplitude is only barely discernible.

Figures 2, 3, and 4 indicate that uncertainties in displacement are somewhat less than 1 cm in the period range of 5-8 seconds, approximately 2 cm at periods near 10 seconds and several (2-4) cm in the 10-15 second period range, for a sensitivity of approximately one-half the typical sensitivity. Both the absolute values and the trend of increasing error with increasing period are consistent with the results of Trifunac et al (1973a).

The 70-mm Film Records

Earthquake accelerograms obtained from the RFT-250 and SMA-1 instruments [for a description of these instruments in the context of laboratory evaluations, see Trifunac and Hudson (1970)] are written on 70-mm film. With respect to the actual record, sensitivity is approximately 1.9 cm/g, and recording speed is 1 cm/sec. Prior to digitization, these records were photographically enlarged four times, thereby increasing the effective sensitivity, the effective recording speed, and the total length of record by a factor of four. Moreover, the photographic enlargement was performed sectionally; in particular, 11-second

sections with a 1-second overlap were enlarged individually from the original record. Thus, the photographic enlargement necessary for accurate digitizing of the 70-mm film records introduces effective operating conditions different from the typical, as well as inherent data discontinuities.

The effect of an (apparent) increased operating speed caused by photographic enlargement is to reduce the period at which long-period errors become unacceptably large, for a given length of record in cm. At the same time, however, photographic enlargement increases the total length of record in cm by the same amount. For a relatively constant spacing of digital points (in points per second) these effects should cancel each other under the assumption that all records are approximately 60 seconds in duration and all recording speeds are near 1 cm/sec. For almost all of the San Fernando earthquake data, these stipulations are met, but some care should be used in assessing the long-period information in the dozen or so records with duration less than 30 seconds. As noted previously, the 4x photographic enlargement means that the sensitivity of the data in the form to be digitized is 7.6 cm/g, close to that of the AR-240 records and about one-half of the "typical" sensitivity. In sum, the different effective operating conditions resulting from the photographic enlargement are not expected to materially alter the error estimates given at the end of the last section, and Figures 2, 3, and 4, which contain data from both RFT-250 and SMA-1 records, by and large bear this out.

The data discontinuities introduced by sectional photographic enlargement pose a potentially more serious problem; discontinuities

of all orders in the time series may arise from photographic distortion at the end of one section relative to the beginning of the next and the subsequent inability or failure of the operator to align the data properly at these junctions. Should this be the case, however, the effect should be discernible as anomalous amplitudes at periods of nT and T/n, where T is the time length of sectional enlargement and n is an integer. For the 70-mm film records processed in this series, T was 11 seconds. Because the standard processing techniques (f_{LC} = 0.07 Hz) remove all harmonics with periods greater than 20 seconds, the anomalous excitation should be largely confined to periods in the vicinity of 11 seconds, the lowest order harmonic present in the routinely processed data.

On the other hand, the magnitude of the anomalous amplitudes at this period may be expected to be difficult to predict in advance. The magnitude of the relative photographic distortion between two adjacent sections, as well as the distortions of an acceleration trace relative to that of its baseline, the number and local positioning of the baselines (fixed traces), the care with which individual segments are aligned (both acceleration traces and baselines) by the operator, and the record length should all affect the magnitude of anomalous amplitudes. Indeed, they all apparently do.

Figures 5 and 6 display three components of ground displacement for five closely-spaced stations in West Los Angeles (Area 2 of Figure 1); the data have been processed in the standard way (f_{LC} = 0.07 Hz) in Figure 5, but f_{LC} has been changed to 0.125 Hz in Figure 6. The horizontal components are not aligned in precisely the same

directions as was the case in Figures 2 and 3, but the alignment is close enough for the purposes of this comparison. Ground displacements in the directions up, NE, and SE are along the positive ordinates of the left, middle, and right columns, respectively. The records have been temporally shifted with respect to the high frequency, predominantly horizontal, arrival that was used to shift the data of Figures 2 and 3; in Figures 5 and 6 its arrival is at 6.4 seconds.

The lower three records in the column of vertical components in Figure 5 do not agree at all with the upper two records of vertical ground displacement; the lower three records are dominated by a large amplitude (5-10 cm) sinusoidal motion with a predominant period close to 11 seconds. These lower three records are all 70-mm film records, sectionally enlarged at 11 second intervals. The presence of this 11-second sinusoidal motion may be noted at varying amplitudes on both sets of horizontal components, despite the fact that the amplitude of the real ground motion is several times larger on the horizontal components than on the vertical components.

This 11-second disturbance is clearly anomalous, since the actual ground motion can have amplitudes no larger than the smallest signals recorded in this area. In fact, there is little doubt that it is related to the sectional photographic enlargement of the data prior to digitizing (see discussion below). This difficulty is apparently eliminated in Figure 6, where all harmonics with $T \geq 10$ seconds have been removed. The agreement between sites for any component motion is as good as it was for Figure 3, given the fact that the

maximum amplitude of vertical motion in Figure 6 is less than 2 cm. Even so, correlatable phases may be seen in the column of vertical motion in Figure 6. Figure 6 suggests that the error in ground displacement in the 5-8 second period range is, again, approximately 1 cm.

The anomalous 11-second disturbance apparently depends on the following conditions, in decreasing order of importance.

1. sectional photographic enlargement
2. number and local positioning of fixed traces
3. operator alignment of data sections
4. record length

Sectional photographic enlargement is the most important of these, since fundamentally the problem is introduced at this step. Moreover, the 70-mm film records (from the RFT-250 and SMA-1 instruments) were sectionally enlarged, but the 35-mm film records (from the MO-2 instrument) were not. The 35-mm film records were photographically enlarged as a unit, and the enlarged record was marked off in 13-second sections prior to digitizing. Only in one case was ground displacement from a 35-mm film record noticeably influenced by a 13-second disturbance, whereas a large fraction of the 70-mm film records were so influenced by the 11-second disturbance.

The number and local positioning of the fixed traces (baselines) can reduce or aggravate the basic difficulty introduced by sectional photographic enlargement. Figure 7 schematically indicates how adjacent sections of RFT-250 and SMA-1 records appear after photographic enlargement and distortion. The RFT-250 records provide a fixed trace close to each component of ground motion, but the SMA-1

records provide only one for the whole record, this being the timing trace at the one margin of the film. It is clear that the fixed trace configuration of the RFT-250 can more fully correct for the sectional photographic enlargement than can the single fixed trace of the SMA-1. This expectation is borne out by the processed data; while the 11-second disturbance is generally discernible on most of the 70-mm film records, the problem is almost always more serious (in terms of amplitude) on the SMA-1 records.

In a few cases of particularly large excitation (10-20 cm) of the 11-second disturbance, there is evidence in the step discontinuity of the fixed trace(s) across adjacent sections that the digitizing operator either failed or was unable to align all the fixed and ground motion traces from one section to the next. Such a first order discontinuity in the time series can have a large affect on the amplitude of the 11-second disturbance, as simple numerical tests have demonstrated.

Finally, SMA-1 records are almost always shorter than RFT-250 records, presumably because of the vertical trigger of the SMA-1. In those cases of closely spaced SMA-1 and RFT-250 instruments where checks could be made, the vertical trigger was apparently successful in triggering the SMA-1 instruments earlier; the reason seems to be that prior to the shear wave arrival, amplitudes in the P-wave coda are larger in the vertical than in the horizontal directions. Following the shear-wave arrival, the reverse is generally true and the RFT-250 remains "triggered" for a greater length of time. While part of the anomalous 11-second excitation may be related to record

length, there is only a weak correspondence, if any, between record length and 11-second excitation for records of a given instrument.

Alterations in the Standard Processing and Presentation

On the basis of our current assessment of the long-period errors in the data presented in the series "Strong Motion Earthquake Accelerograms," two modifications of the standard processing and presentation have been introduced. First, for all 70- (and 35-) mm film records, the low frequency cut-off of the Ormsby filter has been increased from 0.07 to 0.125 Hz to eliminate the spurious 11-second disturbance. Second, a number of records, with very low acceleration amplitudes, will be deleted from further Volumes (II, III, and IV); all of these records do, however, appear in the form of uncorrected accelerograms in Volume I.

The decision to decrease the long-period cut-off point to 8 seconds is undoubtedly an extreme measure for many 70-mm film records and, apparently, most of the 35-mm film records. This decision is primarily motivated by the interest of data uniformity, but there is no simple alternative consistent with the constraint of data accuracy. A record-by-record assessment on an individual basis, together with a necessarily subjective estimate of acceptable levels of spurious 11-second excitation, is beyond the scope of routine processing.

On the other hand, this expedient does not eliminate spurious excitation of the higher frequency harmonics, in particular at $5\frac{1}{2}$ second periods. Simple harmonic analysis indicates that amplitudes

at this period should be considerably reduced, and this is generally borne out by the same sort of investigations presented earlier. In Figure 4 (right-hand column), it may be seen that in several cases the noise (non-correlatable displacement phases) is dominated by sinusoidal motion with a period near 5½ seconds. In all cases, however, the amplitude is less than 1 cm, comparable to the expected errors in this period range at this sensitivity.

Table 2 lists the Caltech reference number and site identification data for all of the 70-mm and 35-mm film records of the San Fernando earthquake, processed under the condition stated above.

The decision to eliminate a number of very low amplitude accelerograms from further processing (Vol. II and on) reflects the expectation that resulting displacement records will be dominated by noise even at relatively small periods. Figure 4 (right-hand column) again illustrates this point; correlatable signal evidently exists only for periods less than a second or so. Amplitudes of longer-period harmonics are processing-generated noise.

Needless to say, the criteria for record elimination were rather subjective. The records eliminated occurred at relatively large epicentral distances (> 100 km) and all but one recorded peak accelerations less than 2%g, the remaining record having a peak acceleration of 2.6%g. A number of additional records, marginally qualifying for elimination, were included for any one of several reasons. From the point of view of long-period errors, a significant number of short duration (≤ 30 seconds) could also be eliminated, but many of these records are, of course, quite significant in the frequency band

of normal earthquake engineering interest. Table 3 lists the Caltech reference number and site identification data for the records that will be deleted in the Volumes II, III, and IV data reports.

Summary and Discussion

Several consistency checks provided by the San Fernando earthquake accelerogram data provide estimates of errors in long-period displacement that are by and large independent of the particular instrument or data processing techniques. For a data sensitivity of approximately 8 cm/g, these errors are estimated to be somewhat less than 1 cm in the period range of 5-8 seconds, approximately 2 cm at periods near 10 sec, and several (2-4) cm in the 10-15 second period range. Both the absolute values and the trend of increasing error with increasing period are in accord with the expectations of Trifunac et al (1973a) for this sensitivity.

Even so, these error estimates are provisional in several respects, embodying assumptions of record length, normal statistical behavior, and reasonable displacement pulse shapes. Nor are the data uniformly accurate over the entire pass-band. As is always the case for a data set of this sort, the individual record requires individual attention to the errors in the period range of interest. Instrumental uniformity to the extent of providing 60-second run times upon triggering would largely eliminate the variations in long-period errors resulting from variable record lengths.

The sectional photographic enlargement of the 70-mm film records introduced spurious excitation at periods close to the sectional

time length, 11 seconds. The available fixed traces could correct for this only in part. While the existence of this problem is due fundamentally to the sectional photographic enlargement, the magnitude of the problem was aggravated in the case of the SMA-1 records by the absence of fixed traces in proximity to the ground motion traces. While the problem can be eliminated by choosing section lengths greater than the maximum period of interest, there is little question that the existence of a fixed trace for each component of motion greatly facilitates the accurate recovery of 5-15 sec information.

As an interim remedy all 70- and 35-mm film records of the San Fernando earthquake (Parts G through S) will be processed with a low frequency cut-off of 0.125 Hz. In addition, a number of low amplitude accelerograms in Parts G through S will be deleted in Volumes II, III, and IV.

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REFERENCES

Trifunac, M. D. (1970). Low-frequency digitization errors and a new method for zero base-line correction of strong-motion accelerograms, Earthquake Engineering Research Laboratory, EERL 70-07, California Institute of Technology, Pasadena.

Trifunac, M. D. and D. E. Hudson (1970). Laboratory evaluations and instrument corrections of strong-motion accelerographs, Earthquake Engineering Research Laboratory, EERL 70-04, California Institute of Technology, Pasadena.

Trifunac, M. D. (1971a). Introduction to Volume II, in Strong Motion Earthquake Accelerograms - Volume IIA, D. E. Hudson and A. G. Brady, Earthquake Engineering Research Laboratory, EERL 71-50, California Institute of Technology, Pasadena.

Trifunac, M. D. (1971b). Zero base-line correction of strong-motion accelerograms, Bull. Seism. Soc. Amer., 61, 1201-1211.

Trifunac, M. D., F. E. Udwadia, and A. G. Brady (1973a). Analysis of errors in digitized strong-motion accelerograms, Bull. Seism. Soc. Amer., 63, 157-187.

Trifunac, M. D., F. E. Udwadia, and A. G. Brady (1973b). Recent developments in data processing and accuracy evaluations of strong motion acceleration measurements, Proc. Fifth World Conf. Earthq. Engr., Rome.

TABLE 1

Station Data for Sites of Area 1 and Area 2

Caltech Ref. #	Address and Location	Instrument	Record Length (sec)	Building Height (stories)
	Area 1			
E075	3470 Wilshire, Sub-basement Los Angeles	AR-240	44	11
E083	3407 W. Sixth St., Basement Los Angeles	AR-240	62	7
D065	3710 Wilshire, Basement Los Angeles	AR-240	41	11
P217	3345 Wilshire, Basement Los Angeles	AR-240	42	12
S265	3411 Wilshire, 5th Basement Los Angeles	MO-2	21	31
S266	3550 Wilshire, Basement Los Angeles	MO-2	42	21
J148	616 S. Normandie, Basement Los Angeles	SMA-1	18	17
	Area 2			
D059	1901 Avenue of Stars, Sub-basement, Los Angeles	AR-240	57	19
R249	1900 Avenue of Stars, Basement Los Angeles	MO-2	41	27
I134	1800 Century Park East, Basement, Los Angeles	SMA-1	49	15
N188	1880 Century Park East, Parking 1st level, Los Angeles	SMA-1	45	16
I131	450 N. Roxbury, 1st Floor Beverly Hills	SMA-1	48	10

TABLE 2

70- and 35-mm Film Records Processed with f_{LC} = 0.125 Hz

Caltech Ref. #	Address
G106	Seismological Lab, C.I.T., Pasadena
G107	Athenaeum, C.I.T., Pasadena
G108	Millikan Library, C.I.T., Basement, Pasadena
G109	Millikan Library, C.I.T., 10th Floor, Pasadena
G110	J. P. L., Basement, Pasadena
G111	J. P. L., 9th Floor, Pasadena
G112	611 W. Sixth St., Basement, Los Angeles
G113	611 W. Sixth St., 42nd Floor, Los Angeles
G114	Fire Station, Storage Room, Palmdale
H115	15250 Ventura Blvd., Basement, Los Angeles
H116	15250 Ventura Blvd., 7th Floor, Los Angeles
H117	15250 Ventura Blvd., Roof, Los Angeles
H118	8639 Lincoln Avenue, Basement, Los Angeles
H119	8639 Lincoln Avenue, 6th Floor, Los Angeles
H120	8639 Lincoln Avenue, 12th Floor, Los Angeles
H121	900 S. Fremont Avenue, Basement, Alhambra
H122	900 S. Fremont Avenue, 6th Floor, Alhambra
H123	900 S. Fremont Avenue, 12th Floor, Alhambra
H124	2600 Nutwood, Basement, Fullerton
H125	2600 Nutwood, Penthouse, Fullerton
H126	2600 Nutwood, Penthouse, West Wing, Fullerton
I128	435 N. Oakhurst Avenue, Basement, Beverly Hills
I129	435 N. Oakhurst Avenue, 5th Floor, Beverly Hills
I130	435 N. Oakhurst Avenue, Roof, Beverly Hills
I131	450 N. Roxbury, 1st Floor, Beverly Hills
I132	450 N. Roxbury, 5th Floor, Beverly Hills
I133	450 N. Roxbury, 10th Floor, Beverly Hills

TABLE 2 (cont.)

Caltech Ref. #	Address
I134	1800 Century Park East, Basement, Los Angeles
I135	1800 Century Park East, 5th Floor, Los Angeles
I136	1800 Century Park East, Penthouse, Los Angeles
I137	15910 Ventura Blvd., Basement, Los Angeles
I138	15910 Ventura Blvd., 9th Floor, Los Angeles
I139	15910 Ventura Blvd., 19th Floor, Los Angeles
J142	Station 4, Lake Hughes Array
J145	15107 Van Owen St., Basement, Los Angeles
J146	15107 Van Owen St., 4th Floor, Los Angeles
J147	15107 Van Owen St., Roof, Los Angeles
J148	616 S. Normandie Avenue, Basement, Los Angeles
J149	616 S. Normandie Avenue, 8th Floor, Los Angeles
J150	616 S. Normandie Avenue, Roof, Los Angeles
K157	420 S. Grand Avenue, 2nd Floor, Los Angeles
K158	420 S. Grand Avenue, 17th Floor, Los Angeles
K159	750 Garland Avenue, 2nd Floor, Los Angeles
K160	750 Garland Avenue, 6th Floor, Los Angeles
L166	3838 Lankershim Blvd., Basement, Los Angeles
L167	3838 Lankershim Blvd., 11th Floor, Los Angeles
L168	3838 Lankershim Blvd., 21st Floor, Los Angeles
L172	1888 Century Park East, Parking Ramp, 5th Floor, Los Angeles
L173	1888 Century Park East, Parking Ramp, 9th Floor, Los Angeles
L174	1888 Century Park East, 14th Floor, Los Angeles
L175	1888 Century Park East, 21st Floor, Los Angeles
M176	1150 S. Hill St., Sub-basement, Los Angeles
M177	1150 S. Hill St., 5th Floor, Los Angeles
M178	1150 S. Hill St., 10th Floor, Los Angeles

TABLE 2 (cont.)

Caltech Ref. #	Address
M180	4000 W. Chapman Avenue, Basement, Orange
M181	4000 W. Chapman Avenue, 10th Floor, Orange
M182	4000 W. Chapman Avenue, 19th Floor, Orange
M183	6074 Park Drive, Ground Level, Wrightwood
M184	6074 Park Drive, Ground Level, Wrightwood
N185	Carbon Canyon Dam, Brea
N186	Whittier Narrows Dam, Whittier
N187	San Antonio Dam, Upland
N188	1880 Century Park East, Parking, 1st Level, Los Angeles
N189	1880 Century Park East, 7th Floor, Los Angeles
N190	1880 Century Park East, Penthouse, Los Angeles
N191	2516 Via Tejon, Ground Level, Palos Verdes Estates
N192	2500 Wilshire Boulevard, Basement, Los Angeles
N193	2500 Wilshire Boulevard, 8th Floor, Los Angeles
N194	2500 Wilshire Boulevard, Roof, Los Angeles
N195	San Juan Capistrano
N196	Long Beach State College, Ground Level, Long Beach
N197	Anza Post Office, Storage Room, Anza
O198	Griffith Park Observatory, Moon Room, Los Angeles
O199	1625 Olympic Blvd., Ground Floor, Los Angeles
O200	1625 Olympic Blvd., 6th Floor, Los Angeles
O201	1625 Olympic Blvd., 10th Floor, Los Angeles
O206	Hall of Records, San Bernardino
O208	University of California, Santa Barbara
O210	Fire Station, Hose Storage Room, Hemet
P231	9841 Airport Blvd., Basement, Los Angeles
P232	9841 Airport Boulevard, 15th Floor, Los Angeles

TABLE 2 (cont.)

Caltech Ref. #	Address
Q233	14724 Ventura Blvd., 1st Floor, Los Angeles
Q234	14724 Ventura Blvd., 6th Floor, Los Angeles
Q235	14724 Ventura Blvd., Penthouse, Los Angeles
Q236	1760 N. Orchid Avenue, Ground Floor, Hollywood
Q237	1760 N. Orchid Avenue, 12th Floor, Hollywood
Q238	1760 N. Orchid Avenue, 23rd Floor, Hollywood
Q239	9100 Wilshire Blvd., Basement, Beverly Hills
Q240	9100 Wilshire Blvd., 5th Floor, Beverly Hills
Q241	800 W. First St., 1st Floor, Los Angeles
Q242	800 W. First St., 16th Floor, Los Angeles
Q243	800 W. First St., 33rd Floor, Los Angeles
R244	222 Figueroa St., 1st Floor, Los Angeles
R245	222 Figueroa St., 20th Floor, Los Angeles
R246	6464 Sunset Blvd., Basement, Los Angeles
R247	6464 Sunset Blvd., 12th Floor, Los Angeles
R248	6464 Sunset Blvd., 1st Floor, Los Angeles
R249	1900 Avenue of the Stars, Basement, Los Angeles
R250	1900 Avenue of the Stars, 29th Floor, Los Angeles
R251	234 S. Figueroa St., Basement, Los Angeles
R252	234 S. Figueroa St., Roof, Los Angeles
R253	533 S. Fremont Avenue, Basement, Los Angeles
R254	533 S. Fremont Avenue, 6th Floor, Los Angeles
S255	6200 Wilshire Blvd., Ground Floor, Los Angeles
S256	6200 Wilshire Blvd., 10th Floor, Los Angeles
S257	6200 Wilshire Blvd., 17th Floor, Los Angeles
S258	3440 University Avenue, Basement, Los Angeles
S259	3440 University Avenue, 5th Floor, Los Angeles
S260	3440 University Avenue, Roof, Los Angeles
S261	1177 Beverly Drive, Basement, Los Angeles

TABLE 2 (cont.)

Caltech Ref. #	Address
S262	5900 Wilshire Blvd., 'B' Parking Lot, Los Angeles
S263	5900 Wilshire Blvd., 16th Floor, Los Angeles
S264	5900 Wilshire Blvd., Penthouse, Los Angeles
S265	3411 Wilshire Blvd., 5th Basement, Los Angeles
S266	3550 Wilshire Blvd., Basement, Los Angeles
S267	5260 Century Blvd., 1st Floor, Los Angeles
S268	5260 Century Blvd., 4th Floor, Los Angeles
S269	5260 Century Blvd., Roof, Los Angeles
S270	930 Hilgard Blvd., 15th Floor, Los Angeles
S271	11661 San Vicente Blvd., 5th Floor, Los Angeles
S272	11661 San Vicente Blvd., 11th Floor, Los Angeles
S273	15433 Ventura Blvd., 7th Floor, Los Angeles

TABLE 3

Low Amplitude Records Deleted from Volumes II, III, and IV

Caltech Ref. #	Address
H127	Gas and Electric Building, Basement, San Diego
I140	Fire Department, Shop, Borrego Springs
J151	Control Tower, Terminus Dam
J152	Crest, Terminus Dam
K153	Station 1, Maricopa Array
K154	Station 2, Maricopa Array
K555	Station 3, Maricopa Array
K156	Station 4, Maricopa Array
K161	Gallery, Isabella Dam
K162	Auxiliary Abutment, Isabella Dam
K163	Auxiliary Crest, Isabella Dam
K164	Control Tower, Isabella Dam
K165	Crest, Isabella Dam
O202	Allen Ranch, Cedar Springs
O203	Pump House, Cedar Springs
O209	Community Hospital, El Centro
O211	Intake Tower, Hoover Dam
O212	Oil House, Hoover Dam
P224	Harvey Auditorium, Bakersfield
P225	Lincoln High School, Tunnel, Taft
P226	Lincoln High School, Roof, Taft
P227	Light & Power Co., Service Building, San Diego
P228	Station 2, Cholame-Shandon Array
P229	Station 8, Cholame-Shandon Array
P230	Taft CWR Site, Buena Vista

FIGURE CAPTIONS

Figure 1 — Instrument site locations for Area 1 and Area 2.

Figure 2 — Three components of displacement of the seven sites of Area 1, with f_{LC} = 0.07 Hz. Ground displacement in the upward vertical, north, and east directions are along the positive ordinates of the left, middle, and right columns, respectively.

Figure 3 — Three components of displacement at the seven sites of Area 1, with f_{LC} = 0.125 Hz. Ground polarity convention same as for Figure 2.

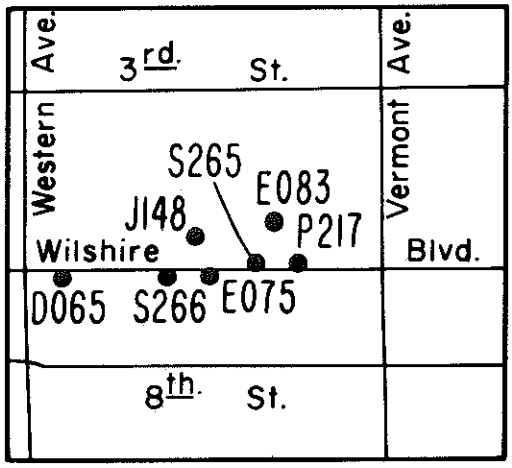
Figure 4 — Three components of displacement at the five instrumental locations on Lake Isabella Dam, with f_{LC} = 0.100, 0.125, and 0.167 Hz for the left, middle, and right columns, respectively.

Figure 5 — Three components of displacement at the five sites of Area 2, with f_{LC} = 0.07 Hz. Ground displacement in the upward vertical, northeast, and southeast directions are along the positive ordinates of the left, middle, and right columns, respectively.

Figure 6 — Three components of displacement at the five sites of Area 2, with f_{LC} = 0.125 Hz. Ground polarity convention same as for Figure 5.

Figure 7 — Schematic illustration of sectionally enlarged, adjacent segments of RFT-250 and SMA-1 accelerograms.

AREA 1



AREA 2

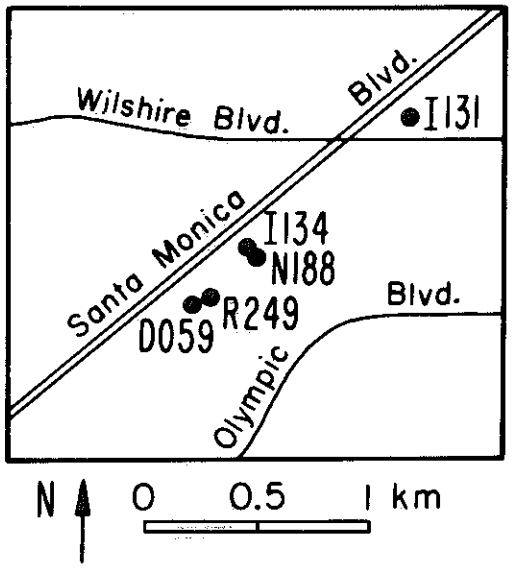


Figure 1

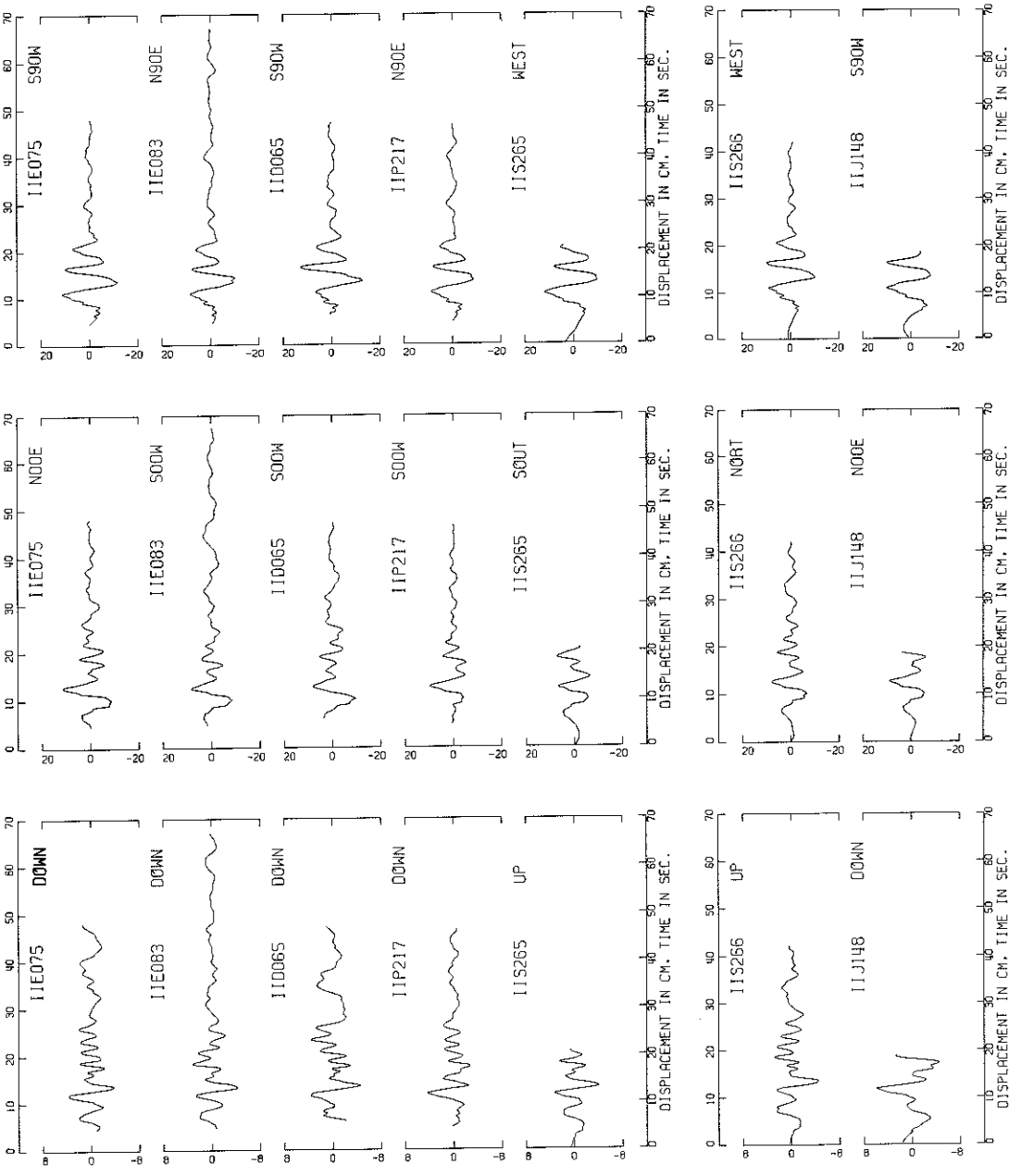

IIE075 DOWN
IIE083 DOWN
IID065 DOWN
IIP217 DOWN
IIS265 UP
IIS266 UP
IIJ148 DOWN
IIE075 N00E
IIE083 S00W
IID065 S00W
IIP217 S00W
IIS265 S00T
IIS266 NORT
IIJ148 N00E
IIE075 S90W
IIE083 N90E
IID065 S90W
IIP217 N90E
IIS265 WEST
IIS266 WEST
IIJ148 S90W
DISPLACEMENT IN CM. TIME IN SEC.

Figure 2

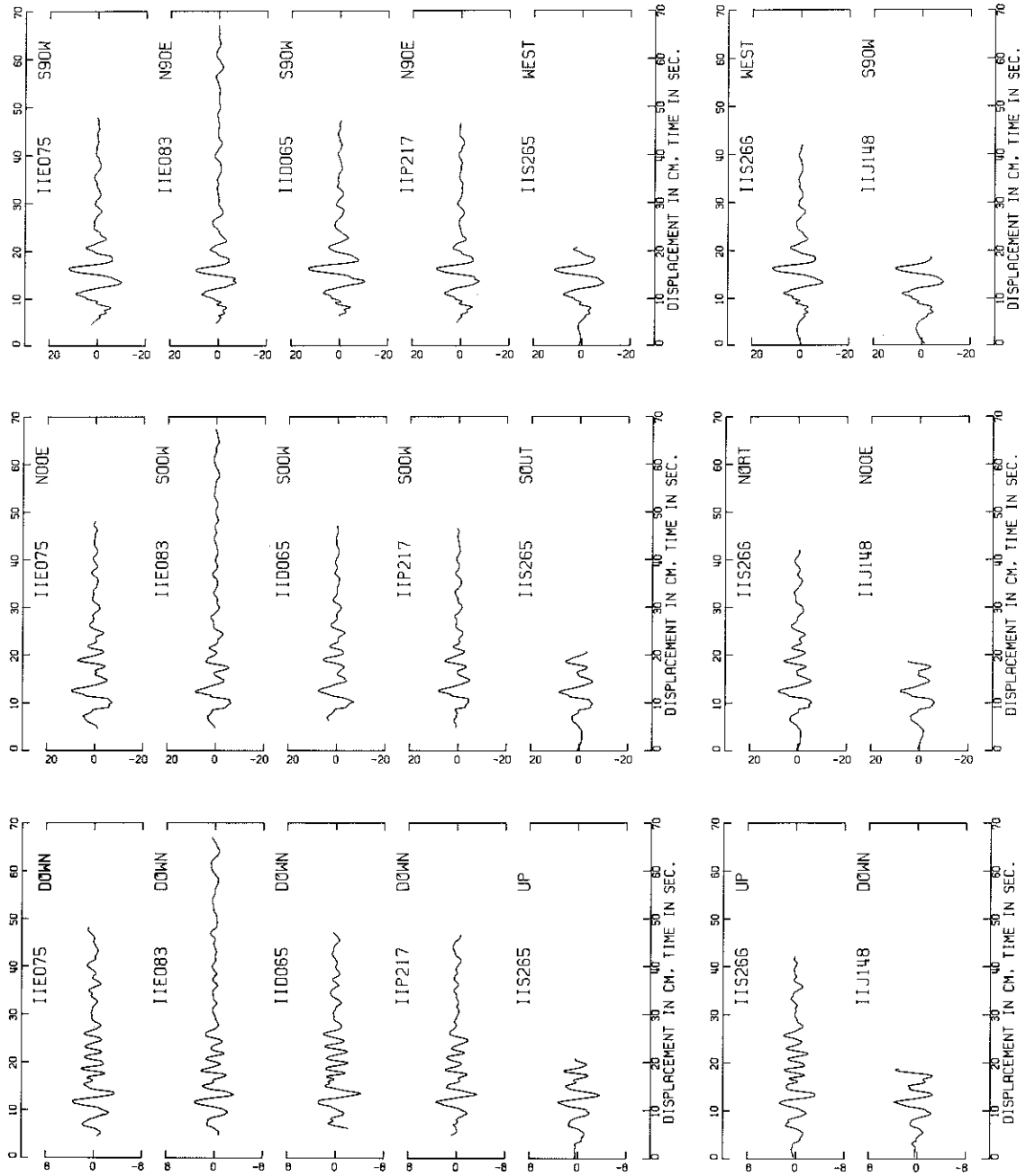

IIE075 DOWN
IIE083 DOWN
IID065 DOWN
IIP217 DOWN
IIS265 UP
IIS266 UP
IIJ148 DOWN
IIE075 NOOE
IIE083 SOOW
IID065 SOOW
IIP217 SOOW
IIS265 SOUT
IIS266 NORT
IIJ148 NOOE
IIE075 S90W
IIE083 N90E
IID065 S90W
IIP217 N90E
IIS265 WEST
IIS266 WEST
IIJ148 S90W
DISPLACEMENT IN CM, TIME IN SEC.

Figure 3

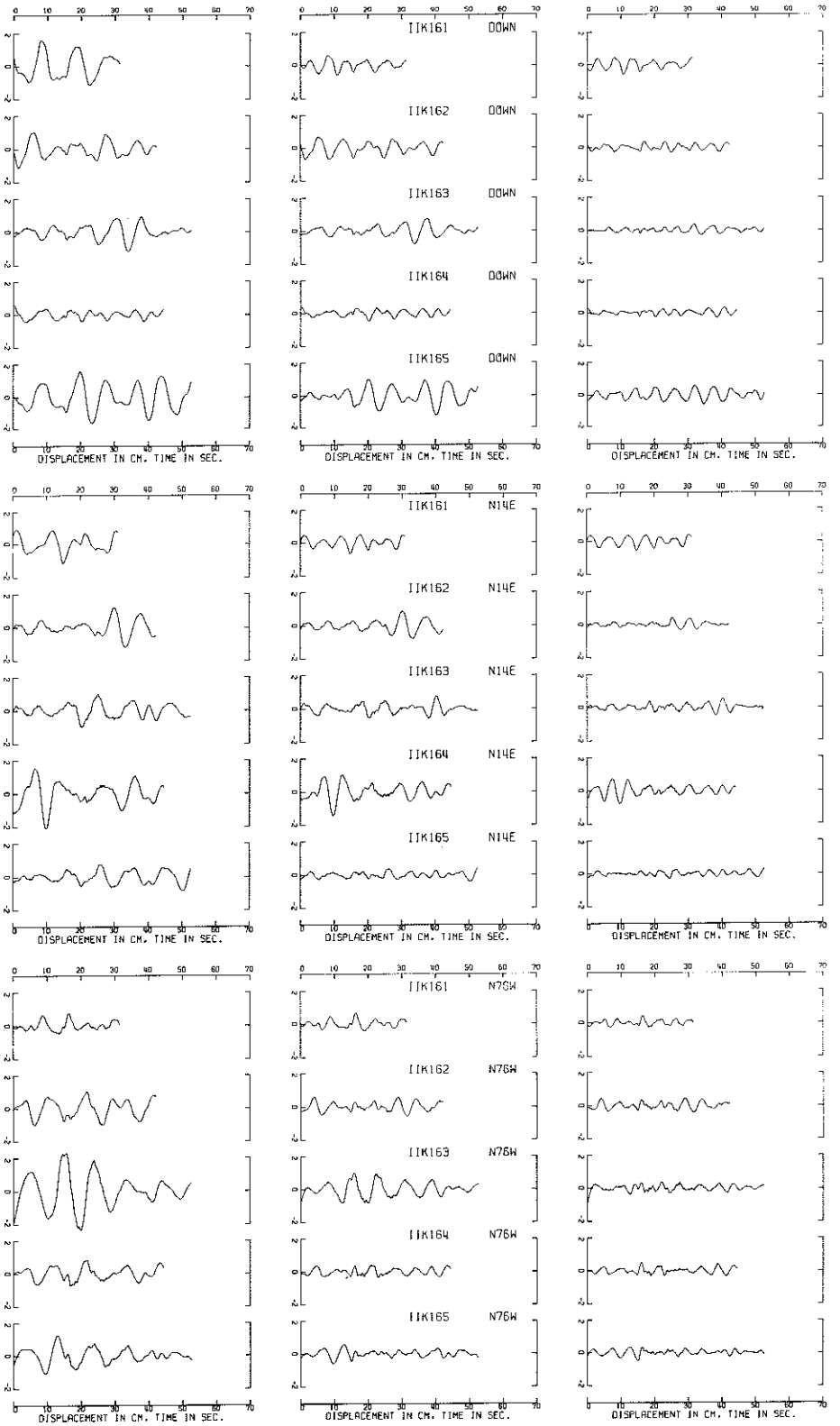

IIK161 DOWN
IIK162 DOWN
IIK163 DOWN
IIK164 DOWN
IIK165 DOWN
IIK161 N14E
IIK162 N14E
IIK163 N14E
IIK164 N14E
IIK165 N14E
IIK161 N76W
IIK162 N76W
IIK163 N76W
IIK164 N76W
IIK165 N76W
DISPLACEMENT IN CM. TIME IN SEC.

Figure 4

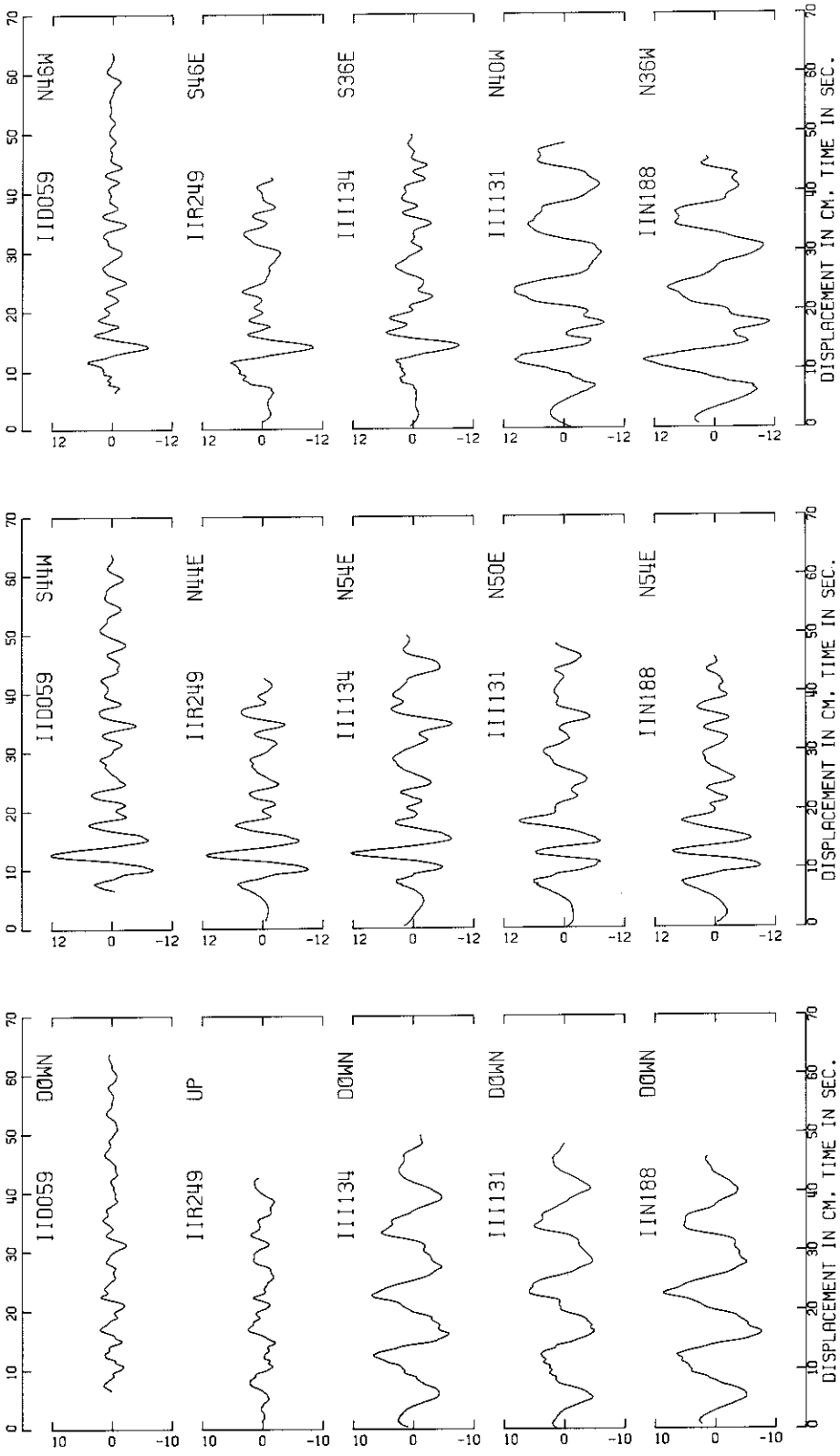

IID059
DOWN
IIR249
UP
III134
DOWN
III131
DOWN
IIN188
DOWN
IID059
S44W
IIR249
N44E
III134
N54E
III131
N50E
IIN188
N54E
IID059
N46W
IIR249
S46E
III134
S36E
III131
N40W
IIN188
N36W
DISPLACEMENT IN CM, TIME IN SEC.

Figure 5

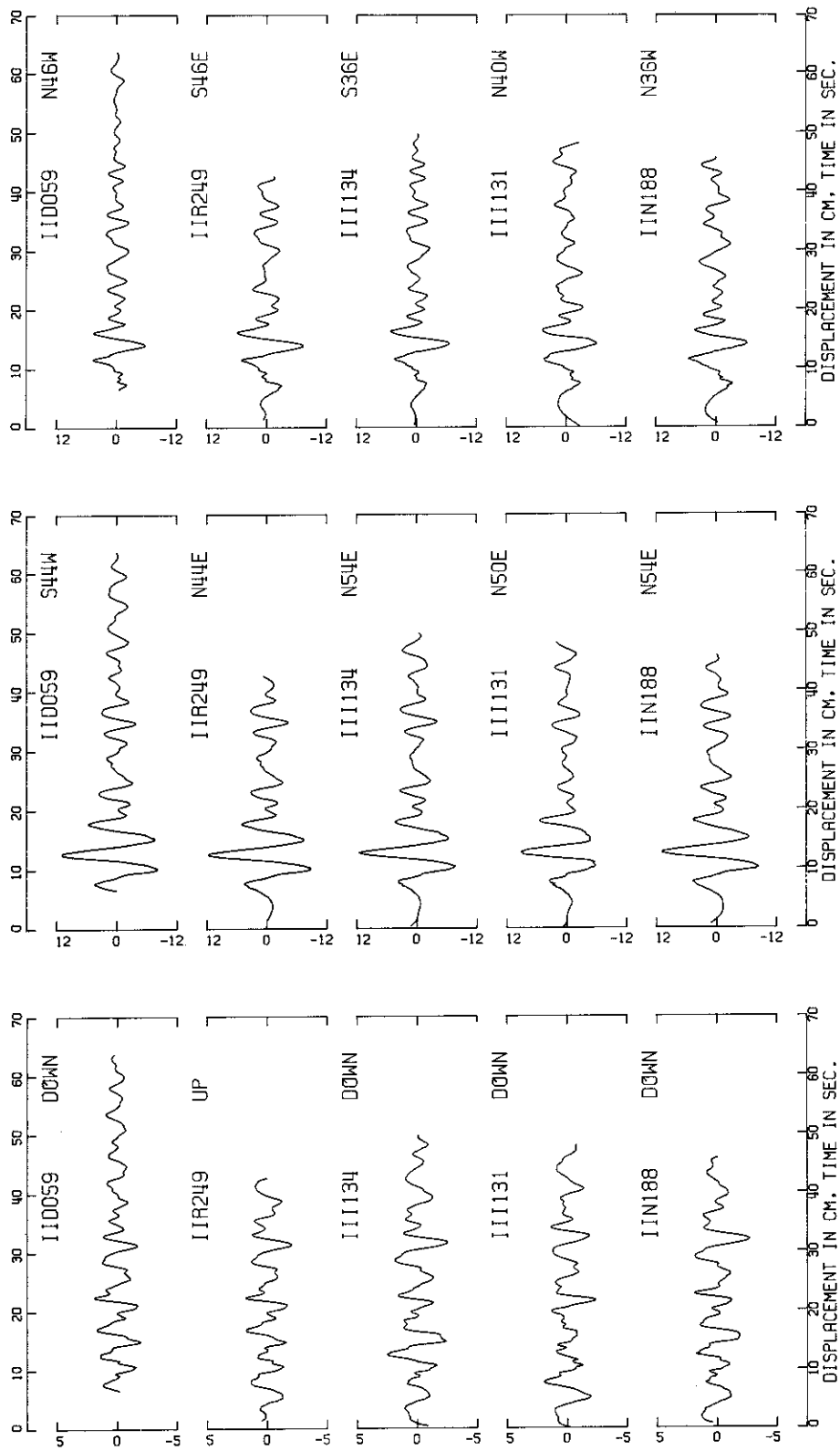

II0059 DOWN
IIR249 UP
III134 DOWN
III131 DOWN
IIN188 DOWN
II0059 S44W
IIR249 N44E
III134 N54E
III131 N50E
IIN188 N54E
II0059 N46W
IIR249 S46E
III134 S36E
III131 N40W
IIN188 N36W
DISPLACEMENT IN CM, TIME IN SEC.

Figure 6

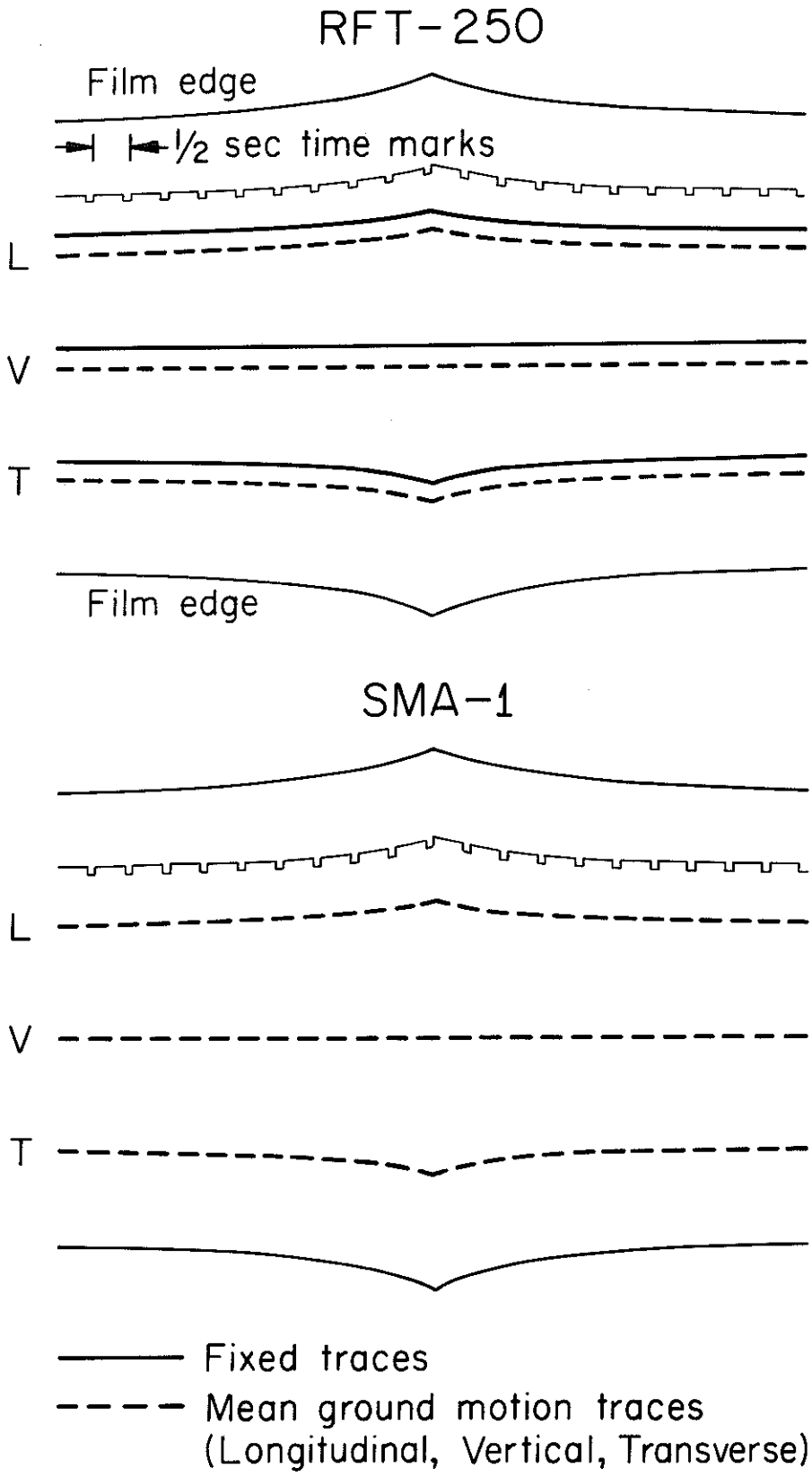

RFT-250
Film edge
½ sec time marks
L
V
T
Film edge
SMA-1
L
V
T
Fixed traces
Mean ground motion traces
(Longitudinal, Vertical, Transverse)

Figure 7

INSTRUMENT CHARACTERISTICS FOR SAN FERNANDO EARTHQUAKE, 2-9-71, 0600 PST

Series Ref. No.	Caltech Log. No.	Instrmt: Serial No.	Station: Location	Component Direction	Period T_o, (sec)	Sens.* (cm/g)	Damp* Ratio, ϵ	Damp* % crit.
IIG106	71.018	RFT-250	266	South	0.046	1.9*	12.5	62.7
		193	Pasadena; Caltech	West	0.046	1.9*	9.4	58.0
			Seismological Lab.	Down	0.046	1.9*	9.2	57.6
IIG107	71.019	SMA-1	475	North	0.378	1.79	10.6	60.1
		124	Pasadena; Caltech	East	0.367	1.82	7.9	55.0
			Athenaeum	Down	0.378	1.95	5.9	49.1
IIG108	71.022	RFT-250	264	North	0.051	1.9*	15.3	65.5
		198	Pasadena; Caltech	East	0.051	1.9*	12.1	62.1
			Millikan Library, Bsmt.	Down	0.053	1.9*	9.4	58.0
IIG109	71.023	RFT-250	265	North	0.047	1.9*	11.4	61.2
		200	Pasadena; Caltech	East	0.048	1.9*	7.5	54.0
			Millikan Library, 10th Fl.	Down	0.048	1.9*	11.7	61.6
IIG110	71.032	RFT-250	267	S82E	0.046	1.9*	8.9	57.2
		195	Pasadena; Jet Prop.	S08W	0.047	1.9*	10.6	60.1
			Lab., Bsmt.	Down	0.046	1.9*	11.4	61.2
IIG111	71.031	RFT-250	268	S82E	0.048	1.9*	9.3	57.9
		199	Pasadena; Jet Prop.	S08W	0.047	1.9*	9.4	58.1
			Lab., 9th Fl.	Down	0.047	1.9*	9.4	58.1
IIG112	71.038	RFT-250	163	N52W	0.046	1.9*	8.0	55.2
		139	L.A., 611 W. Sixth St.	N38E	0.046	1.9*	8.0	55.3
			Bsmt.	Down	0.047	1.9*	11.3	61.1
IIG113	71.040	RFT-250	165	N38E	0.047	1.9*	11.7	61.7
		122	L.A., 611 W. Sixth St.	N52W	0.049	1.9*	11.1	60.8
			42nd Fl.	Down	0.048	1.9*	17.5	67.3

*See footnotes at end of table.

INSTRUMENT CHARACTERISTICS FOR SAN FERNANDO EARTHQUAKE, 2-9-71, 0600 PST

Series Ref. No.	Caltech Log. No.	Instrmt: Serial No.	Station: Location	Component Direction	Period T_o, (sec)	Sens.* (cm/g)	Damp* Ratio, ϵ	Damp* % crit.
IIG114	71.064	RFT-250 189	262 Palmdale Fire Station Storage Room	S60E	0.047	1.9*	6.4	50.8
				S30W	0.048	1.9*	13.0	63.2
				Down	0.049	1.9*	11.8	61.8

* Static Magnification, $V_s = \omega_n^2 \cdot$ Sensitivity $= \left[\frac{2\pi}{T_o(\text{sec})}\right]^2 \cdot \frac{\text{Sensitivity (cm/g)}}{980\ (\text{cm/sec}^2/\text{g})}$

Asterisked sensitivities are nominal values.

Damping Ratio, $\epsilon = \exp\left[\pi n / \sqrt{(1-n^2)}\right]$ where n is the fraction of critical damping.

Periods and damping values have been obtained by direct measurement of the calibration test records appearing at the beginning or end of the earthquake records. If none were present, the data were taken from the Seismological Field Survey's appropriate list (January, 1970).

The component direction is that of the pendulum motion that causes the trace to be deflected upwards on the original record with the emulsion side up and time increasing from left to right.

EARTHQUAKE DATA

The San Fernando, California, Earthquake of February 9, 1971, 0600 PST; epicenter, 34°24.0'N, 118°23.7'W; maximum intensity, XI; revised magnitude, (M_L), 6.4; depth, 13.0 km.

REFERENCES (See additional list, page 198)

- (April-May, 1971). "The San Fernando Earthquake," California Geology, v. 24, n. 4-5.

- (November, 1971). "Report of the Los Angeles County Earthquake Commission, San Fernando Earthquake, February 9, 1971," prepared for the Los Angeles Board of Supervisors.

- "The San Fernando Earthquake of February 9, 1971," National Academy of Sciences, Washington, D. C.

Barrows, A. G., et al (1971). "Map of Surface Breaks Resulting from the San Fernando, California, Earthquake of February 9, 1971," California Division of Mines and Geology.

Bolt, B. A. (August, 1972). "San Fernando Rupture Mechanism and the Pacoima Strong-Motion Record, "Bull. Seism. Soc. Am., v. 62, n. 4, 1053-1061.

Canitez, N. and M. N. Toksöz (May, 1972). "Static and Dynamic Study of Earthquake Source Mechanism: San Fernando Earthquake," Journal of Geophysical Research, v. 77, n. 14, 2583-2594.

Division of Geological and Planetary Sciences, California Institute of Technology (April, 1971). "Preliminary Seismological and Geological Studies of the San Fernando, California, Earthquake of February 9, 1971," Bull. Seism. Soc. Am., v. 61, n. 2, 491-495.

Hanks, T. C. (February, 1974). "The Faulting Mechanism of the San Fernando, California, Earthquake," J. Geophys. Res., v. 79, In Press.

Housner, G. W. and P. C. Jennings (July-September, 1972). "The San Fernando California Earthquake," Earthquake Engineering and Structural Dynamics, The Journal of the International Association for Earthquake Engineering, v. 1, n. 1, 5-31.

Hudson, D. E. (December, 1972). "Local Distribution of Strong Earthquake Ground Motions," Bull. Seism. Soc. Am., v. 62, n. 6, 1765-1786.

Mikumo, T. (1973). "Faulting Process of the San Fernando Earthquake of February 9, 1971 Inferred from Static and Dynamic Near-Field Displacements," Bull. Seism. Soc. Am., v. 63, n. 1, 249-269.

Perez, V. (1973). "Velocity Response Envelope Spectrum as a Function of Time, For the Pacoima Dam, San Fernando Earthquake, February 9, 1971," Bull. Seism. Soc. Am., v. 63, n. 1, 299-313.

Proctor, R. J., R. Crook, Jr., M. H. McKeown, and R. L. Moresco (June, 1972). "Relation of Known Faults to Surface Ruptures, 1971 San Fernando Earthquake, Southern California," Bull. Geol. Soc. Am., v. 83, 1601-1618.

Steinbrugge, K. V., et al (August, 1971). "The San Fernando Earthquake, February 9, 1971," Pacific Fire Rating Bureau, 465 California Street, San Francisco, California.

Trifunac, M. D. (June, 1972). "Stress Estimates for the San Fernando, California, Earthquake of February 9, 1971: Main Event and Thirteen Aftershocks," Bull. Seism. Soc. Am., v. 62, n. 3, 721-750.

Trifunac, M. D. and D. E. Hudson (October, 1971). "Analysis of the Pacoima Dam Accelerogram," Bull. Seism. Soc. Am., v. 61, n. 5, 1393-1411.

Trifunac, M. D. (February, 1974). "A Three-Dimensional Dislocation Model for the San Fernando, California, Earthquake of February 9, 1971," Bull. Seism. Soc. Am., v. 64, n. 1, In Press.

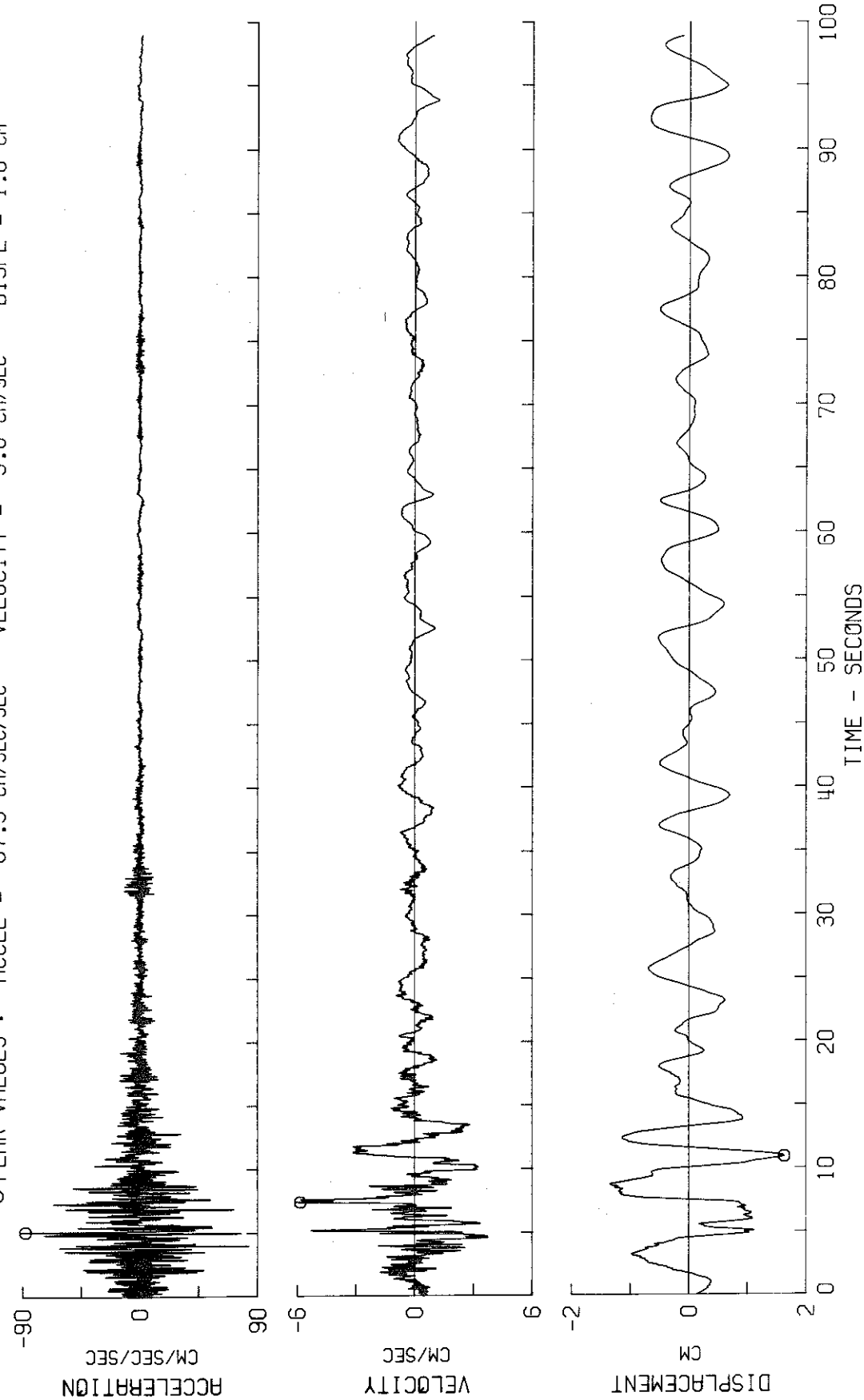
U. S. Department of Commerce (March, 1971). "The San Fernando, California, Earthquake of February 9, 1971," National Bureau of Standards Report 10556.

U. S. Department of Commerce (December, 1971). "Engineering Aspects of the 1971 San Fernando Earthquake," Building Science Series 40, National Bureau of Standards.

U. S. Geological Survey and the National Oceanic and Atmospheric Administration. "The San Fernando, California, Earthquake of February 9, 1971," Geological Survey Professional Paper 733, (preliminary report).

INDEX OF EARTHQUAKE RECORDS IN

VOLUME II, PART G


SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
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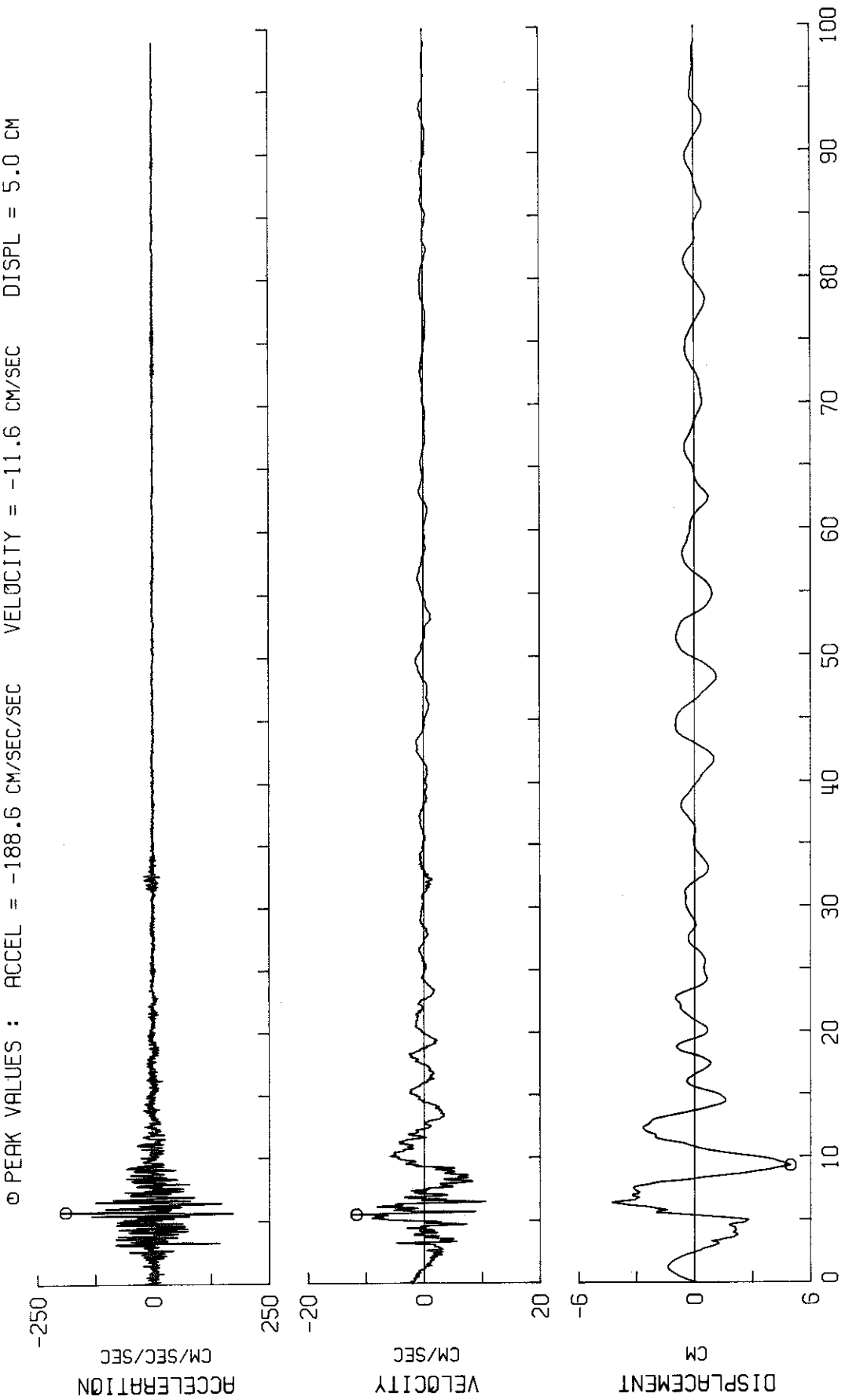
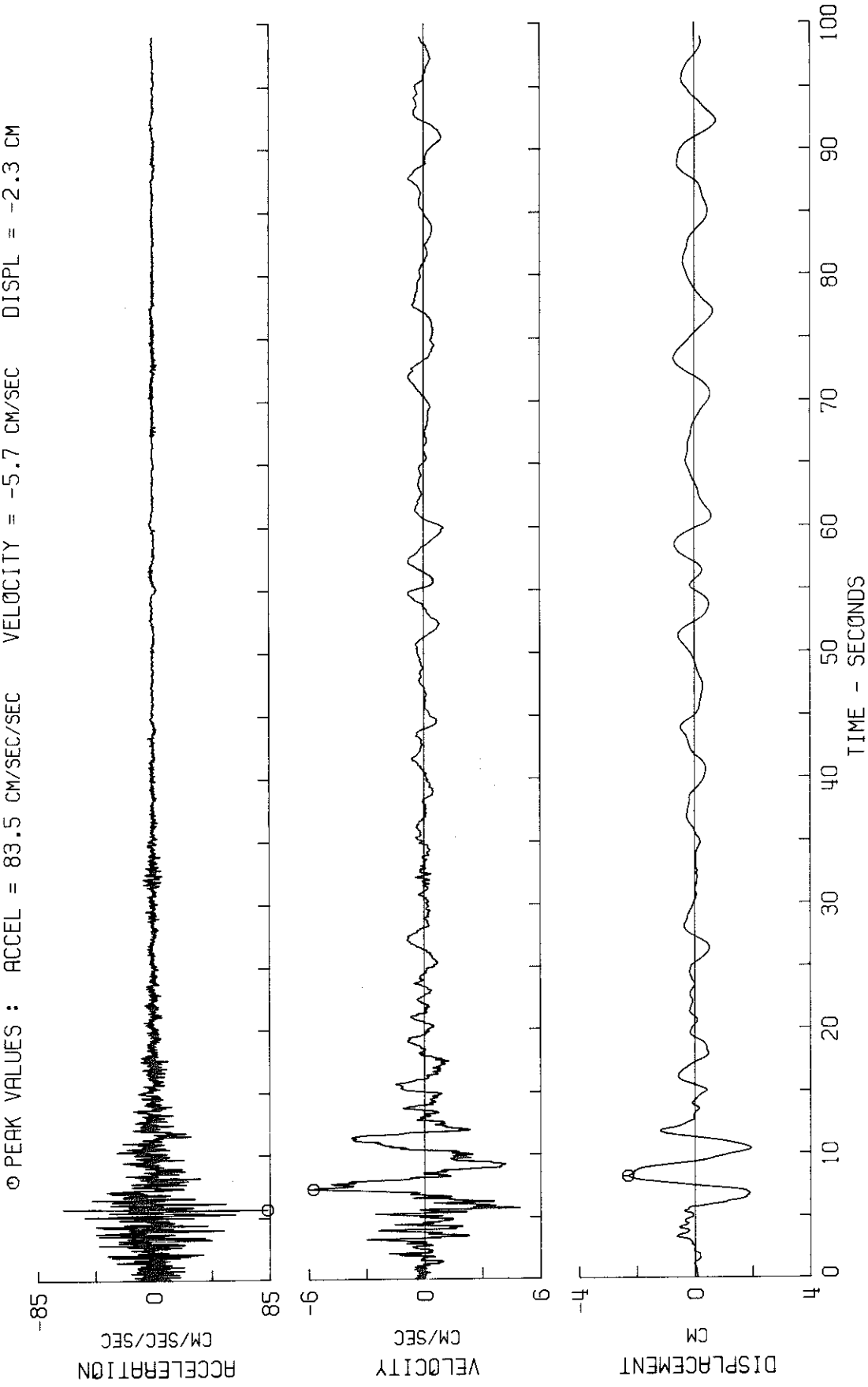
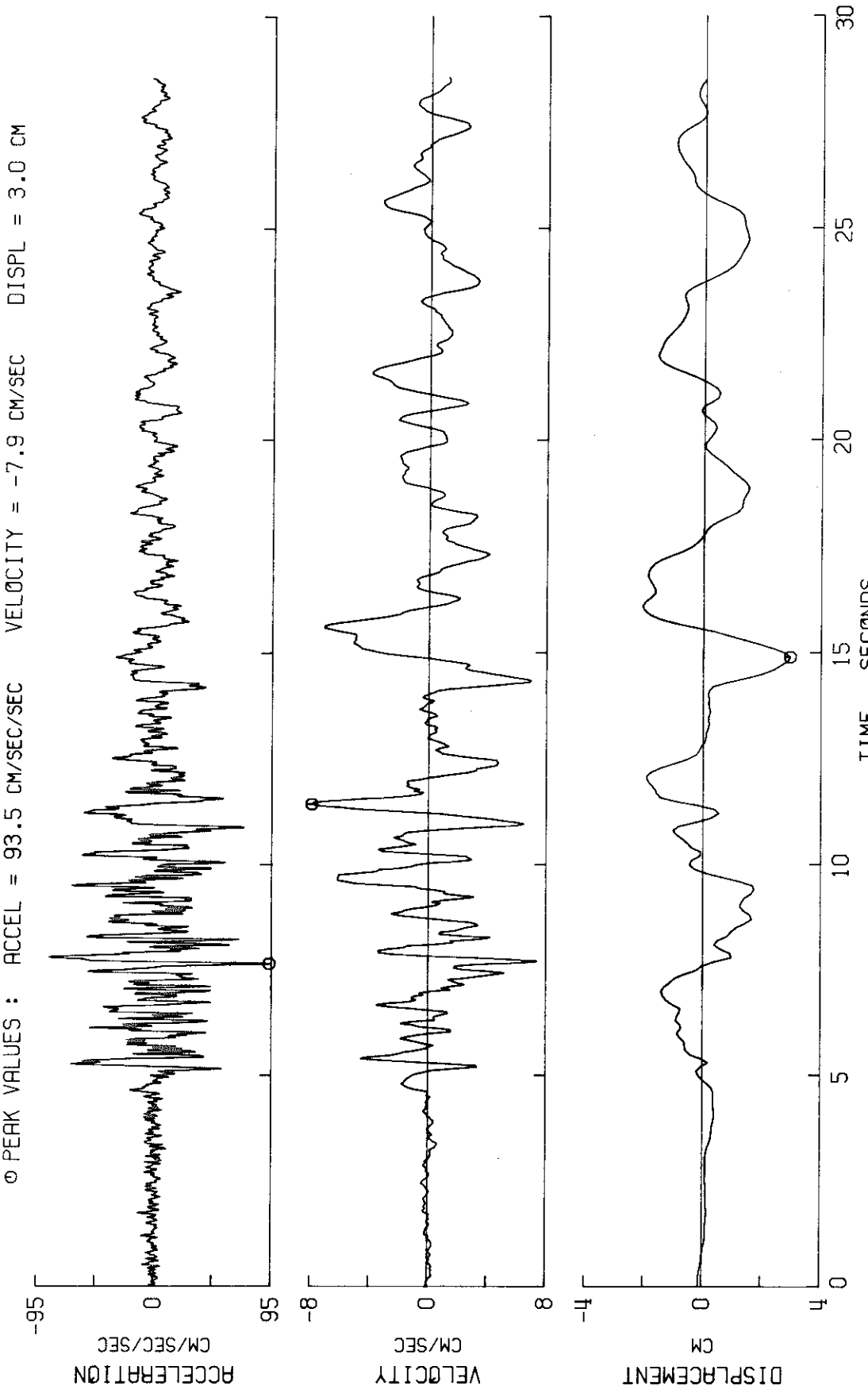
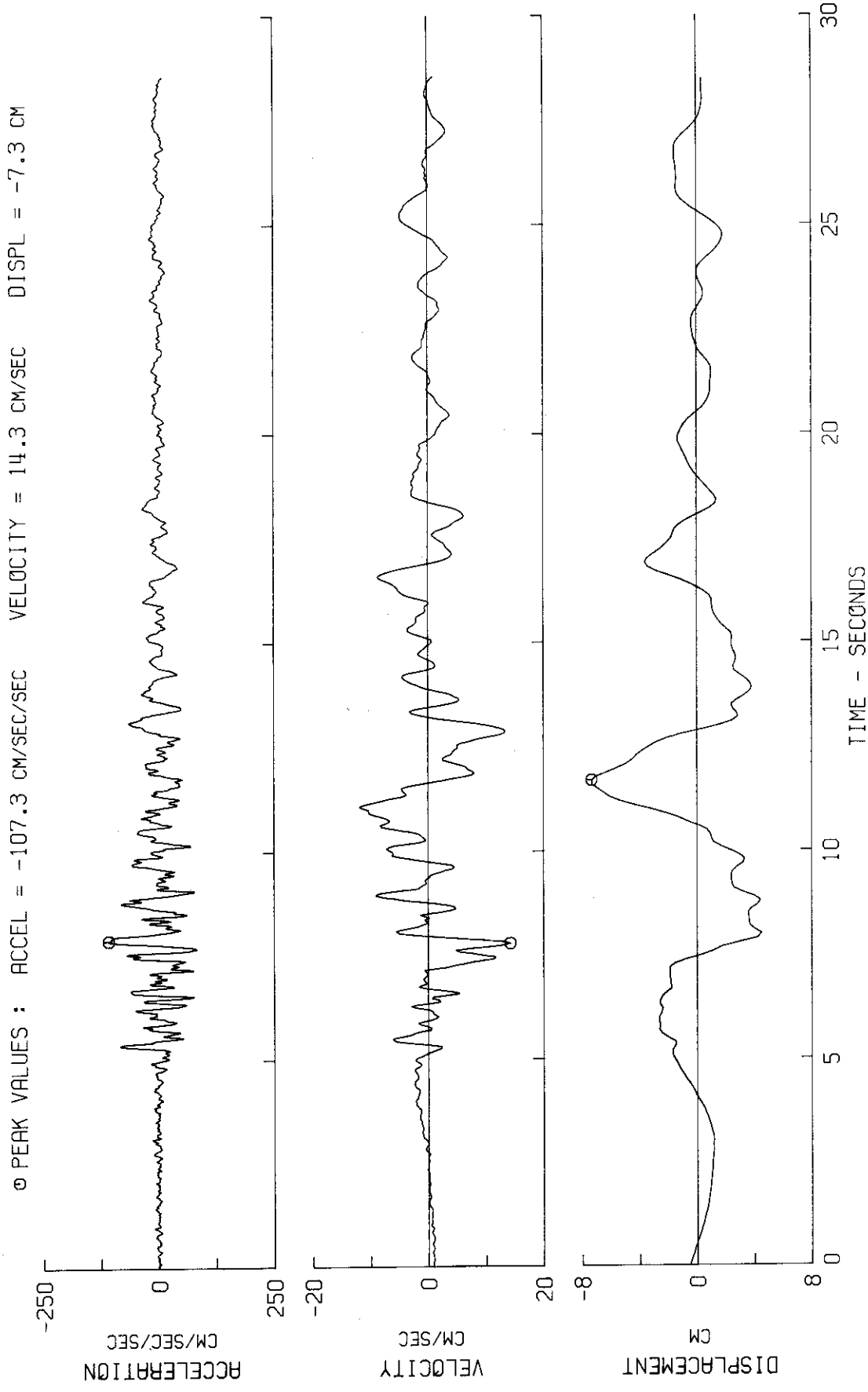
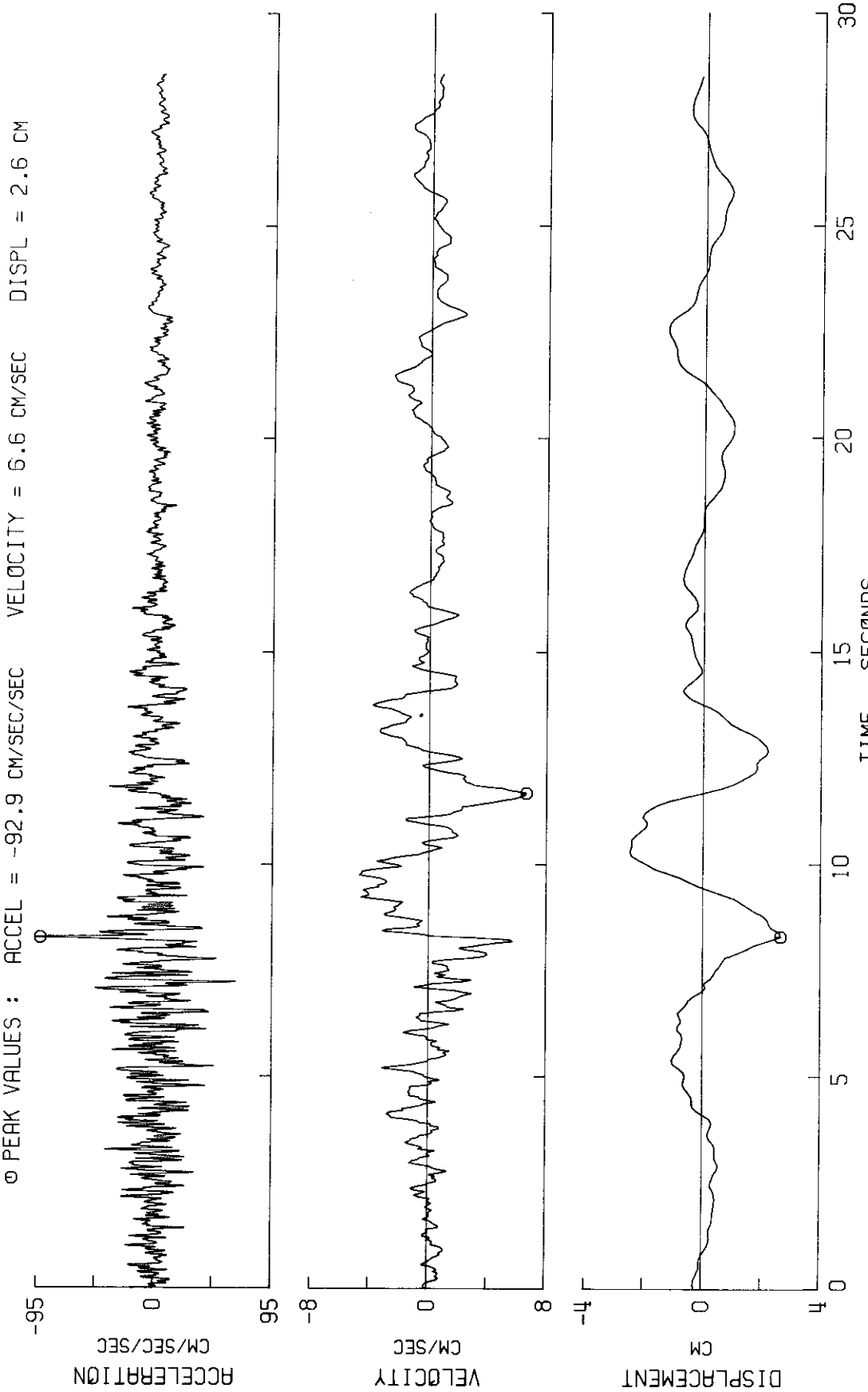
ACCELERATION
CM/SEC/SEC
-90
0
90
VELOCITY
CM/SEC
-6
0
6
DISPLACEMENT
CM
-2
0
2
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

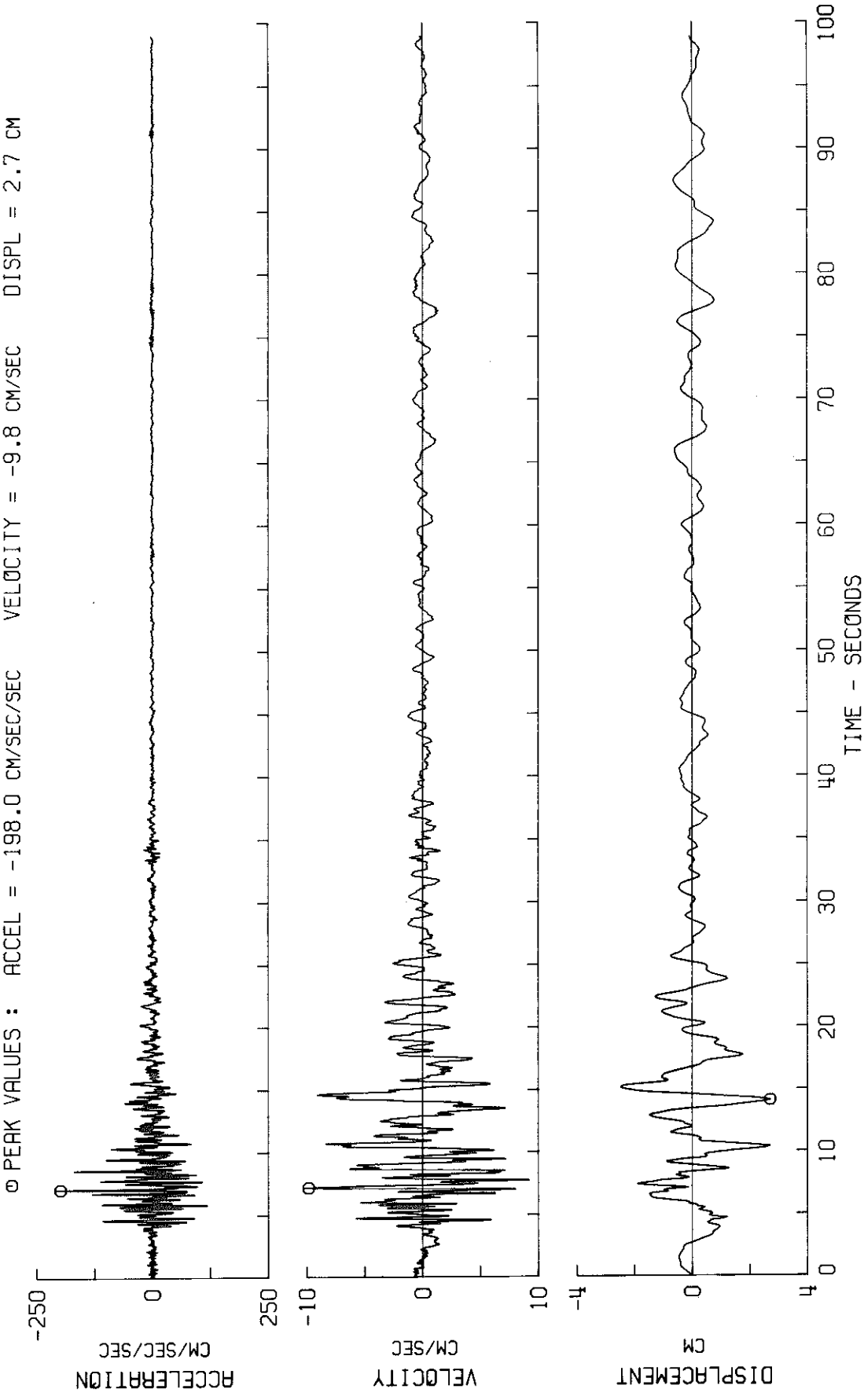

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG106 71.018.0 CALTECH SEISMOLOGICAL LAB., PASADENA, CAL. COMP S90W
PEAK VALUES : ACCEL = -188.6 CM/SEC/SEC VELOCITY = -11.6 CM/SEC DISPL = 5.0 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-20
0
20
DISPLACEMENT
CM
-6
0
6
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

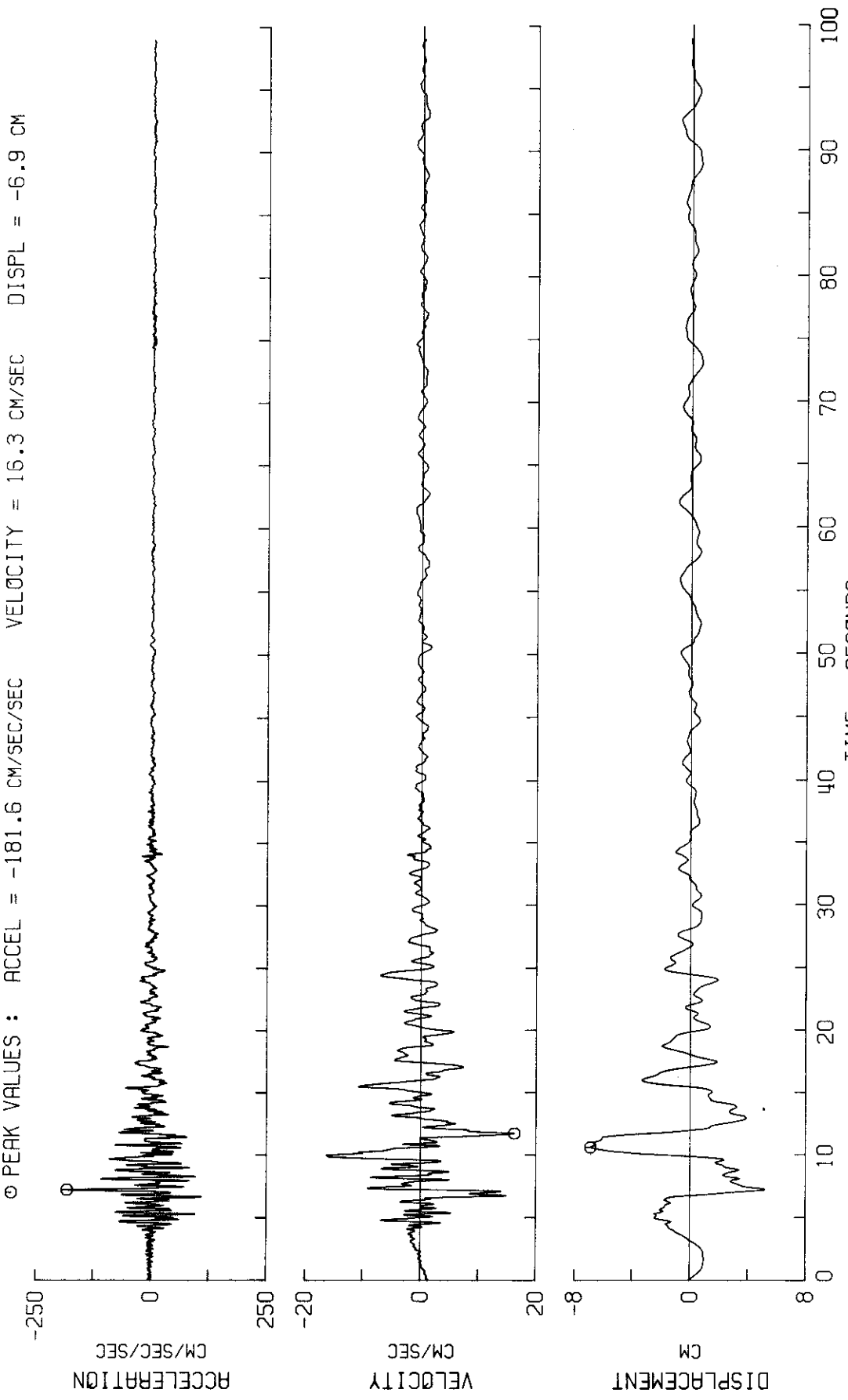

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG106 71.018.0 CALTECH SEISMOLOGICAL LAB., PASADENA, CAL. COMP DOWN
⊙ PEAK VALUES : ACCEL = 83.5 CM/SEC/SEC VELOCITY = -5.7 CM/SEC DISPL = -2.3 CM
ACCELERATION
CM/SEC/SEC
-85
0
85
VELOCITY
CM/SEC
-6
0
6
DISPLACEMENT
CM
-4
0
4
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

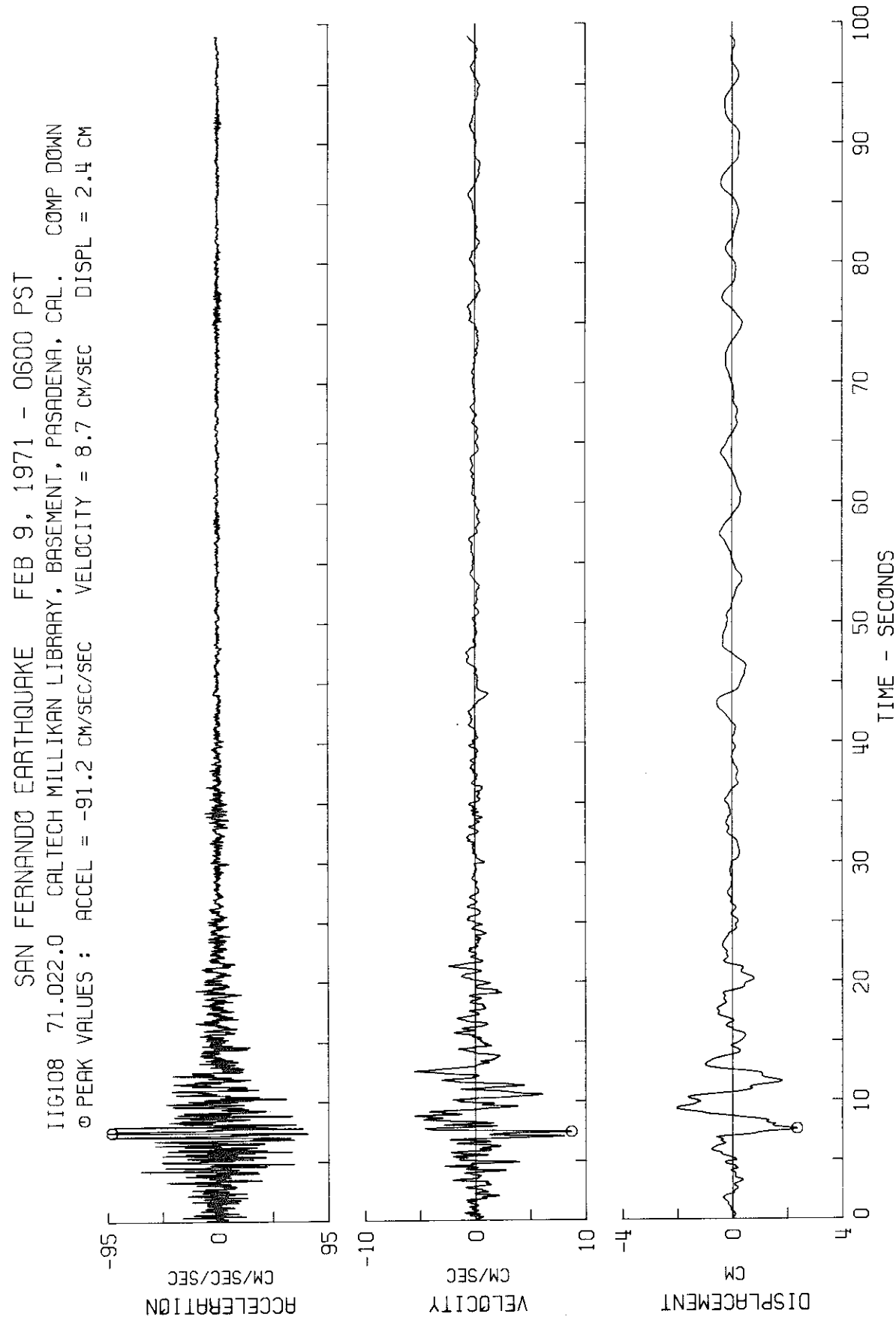

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG107 71.019.0 CALTECH ATHENAEUM, PASADENA, CAL. COMP N00E
Φ PEAK VALUES : ACCEL = 93.5 CM/SEC/SEC VELOCITY = -7.9 CM/SEC DISPL = 3.0 CM
ACCELERATION
CM/SEC/SEC
-95
0
95
VELOCITY
CM/SEC
-8
0
8
DISPLACEMENT
CM
-4
0
4
0
5
10
15
20
25
30
TIME - SECONDS

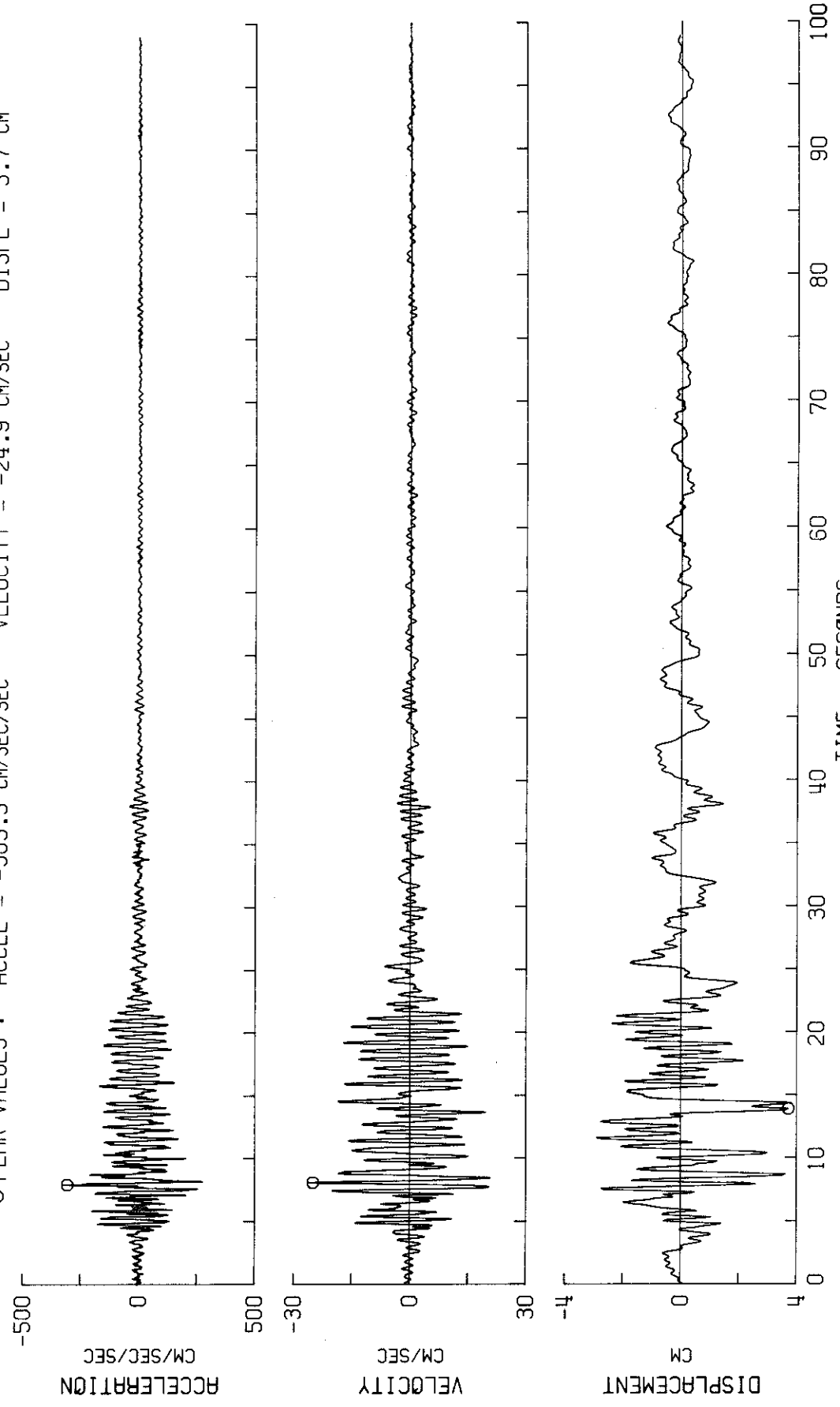

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG107 71.019.0 CALTECH ATHENAEUM, PASADENA, CAL. COMP N90E
⊙ PEAK VALUES : ACCEL = -107.3 CM/SEC/SEC VELOCITY = 14.3 CM/SEC DISPL = -7.3 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-20
0
20
DISPLACEMENT
CM
-8
0
8
0
5
10
15
20
25
30
TIME - SECONDS

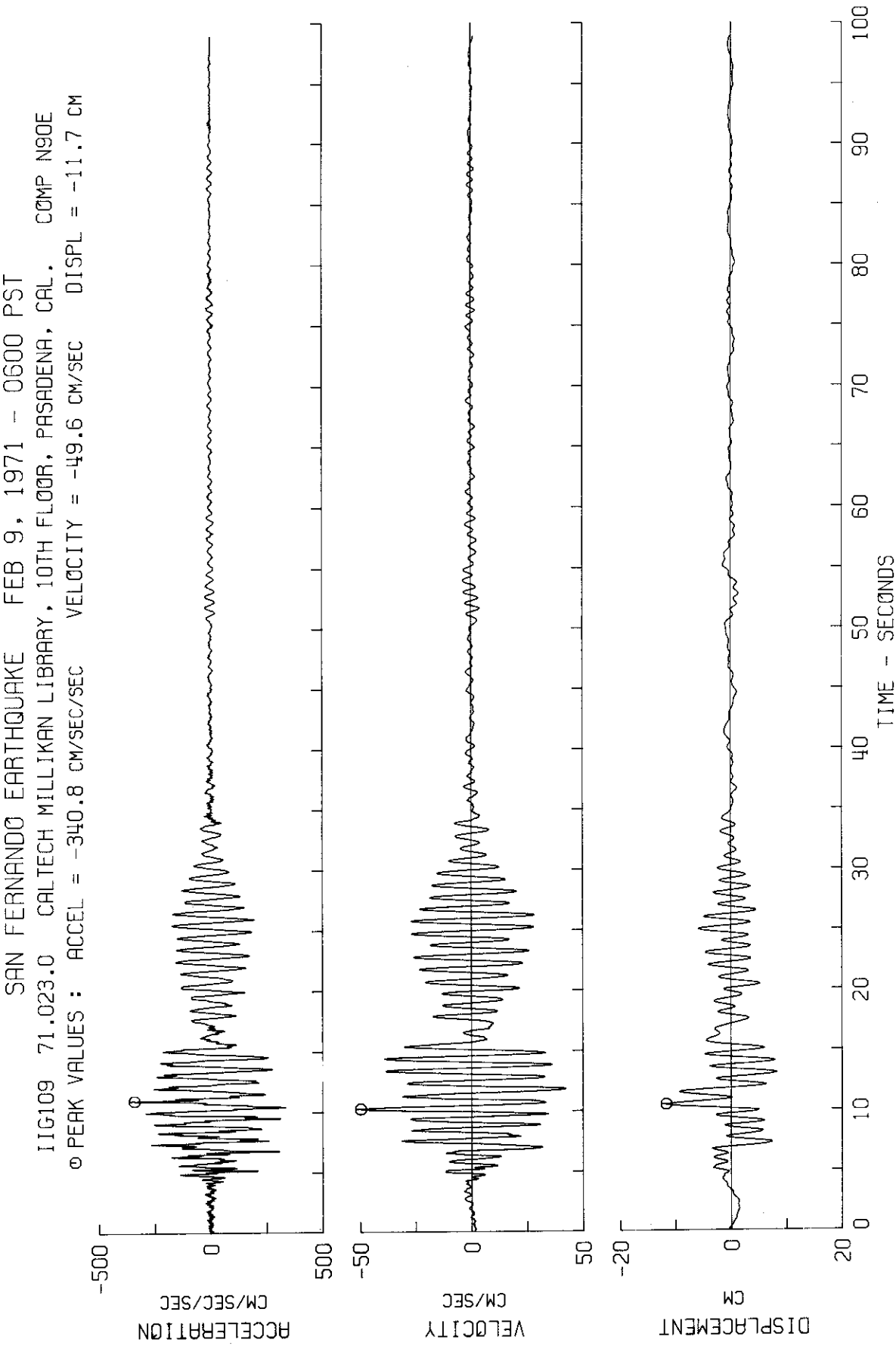

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG107 71.019.0 CALTECH ATHENAEUM, PASADENA, CAL. COMP DOWN
Φ PEAK VALUES : ACCEL = -92.9 CM/SEC/SEC VELOCITY = 6.6 CM/SEC DISPL = 2.6 CM
ACCELERATION
CM/SEC/SEC
-95
0
95
VELOCITY
CM/SEC
-8
0
8
DISPLACEMENT
CM
-4
0
4
0
5
10
15
20
25
30
TIME - SECONDS

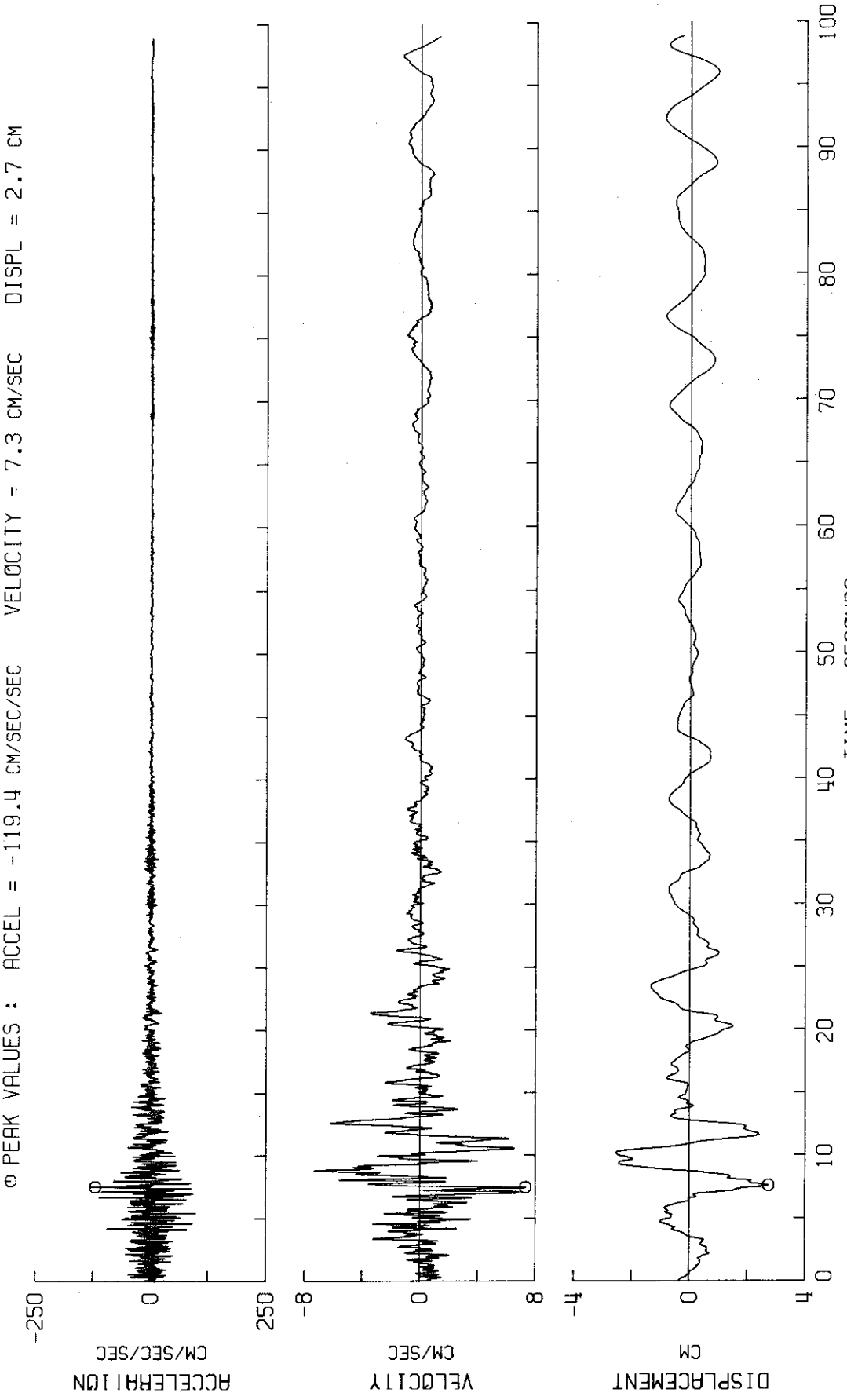

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG108 71.022.0 CALTECH MILLIKAN LIBRARY, BASEMENT, PASADENA, CAL. COMP N00E
Θ PEAK VALUES : ACCEL = -198.0 CM/SEC/SEC VELOCITY = -9.8 CM/SEC DISPL = 2.7 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-10
0
10
DISPLACEMENT
CM
-4
0
4
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

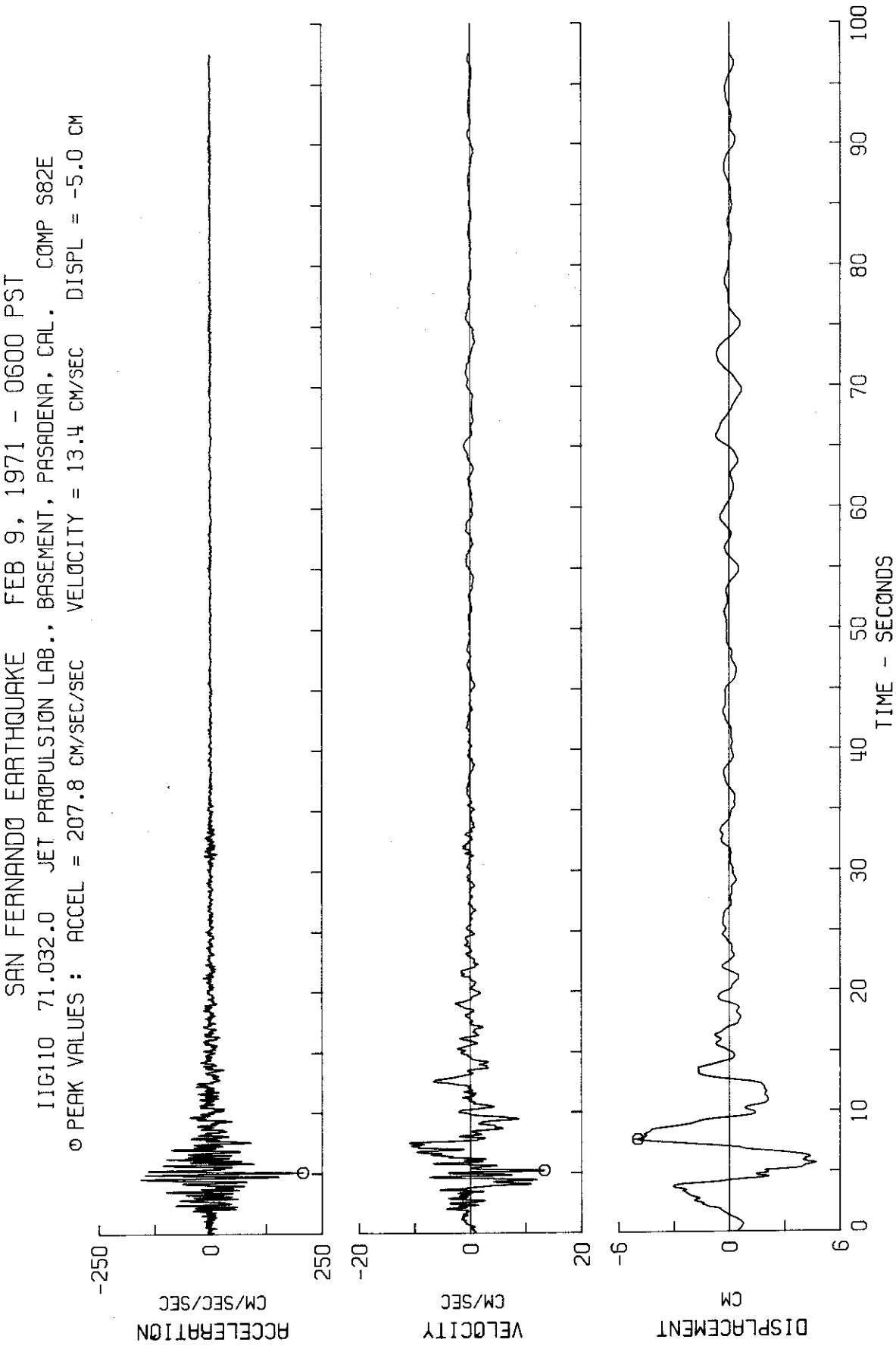

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG108 71.022.0 CALTECH MILLIKAN LIBRARY, BASEMENT, PASADENA, CAL. COMP N90E
PEAK VALUES : ACCEL = -181.6 CM/SEC/SEC VELOCITY = 16.3 CM/SEC DISPL = -6.9 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-20
0
20
DISPLACEMENT
CM
-8
0
8
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

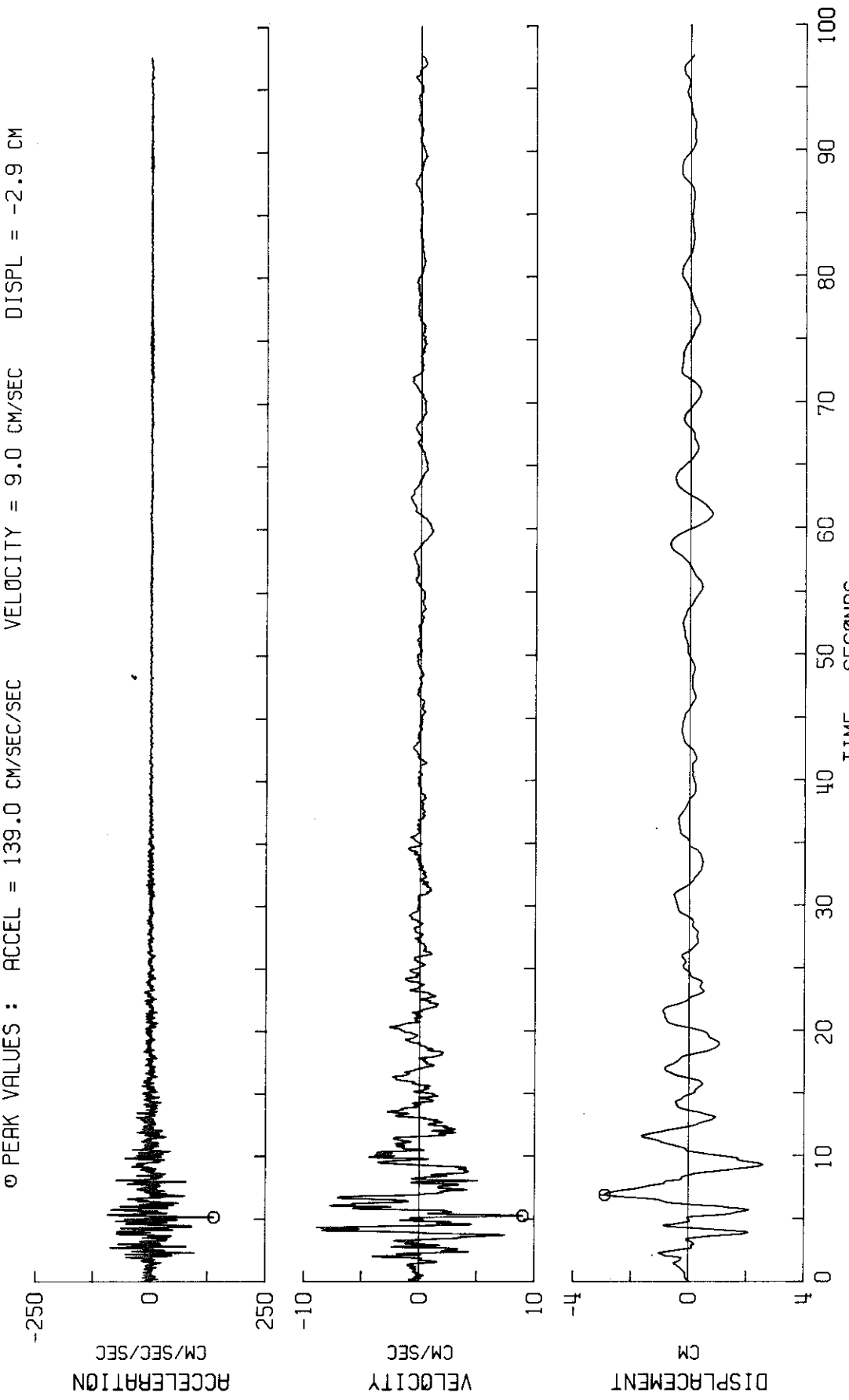

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG108 71.022.0 CALTECH MILLIKAN LIBRARY, BASEMENT, PASADENA, CAL. COMP DOWN
⊙ PEAK VALUES : ACCEL = -91.2 CM/SEC/SEC VELOCITY = 8.7 CM/SEC DISPL = 2.4 CM
ACCELERATION
CM/SEC/SEC
-95
0
95
VELOCITY
CM/SEC
-10
0
10
DISPLACEMENT
CM
-4
0
4
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

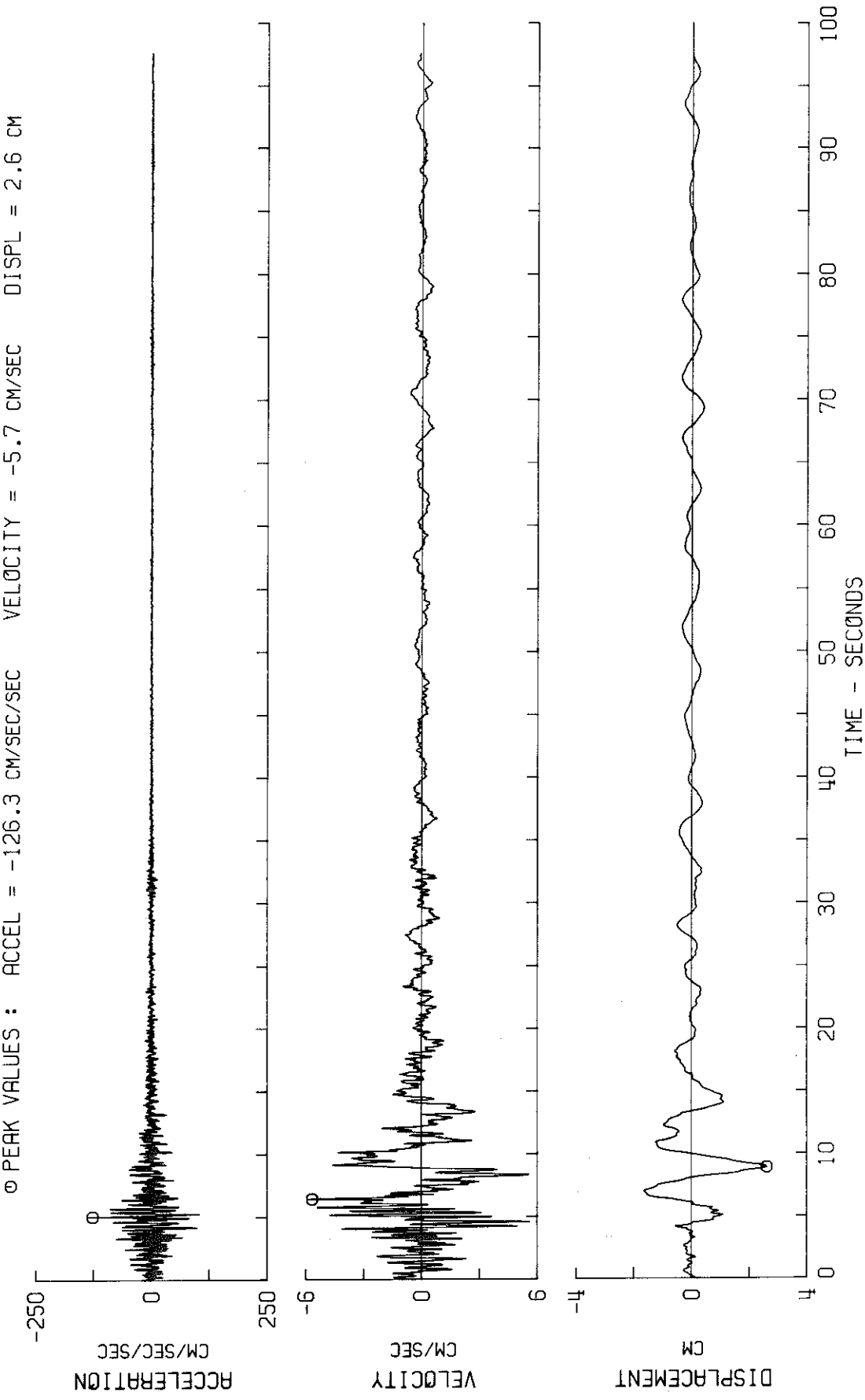

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG109 71.023.0 CALTECH MILLIKAN LIBRARY, 10TH FLOOR, PASADENA, CAL. COMP NOOE
⊙ PEAK VALUES : ACCEL = -305.5 CM/SEC/SEC VELOCITY = -24.9 CM/SEC DISPL = 3.7 CM
ACCELERATION
CM/SEC/SEC
-500
0
500
VELOCITY
CM/SEC
-30
0
30
DISPLACEMENT
CM
-4
0
4
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

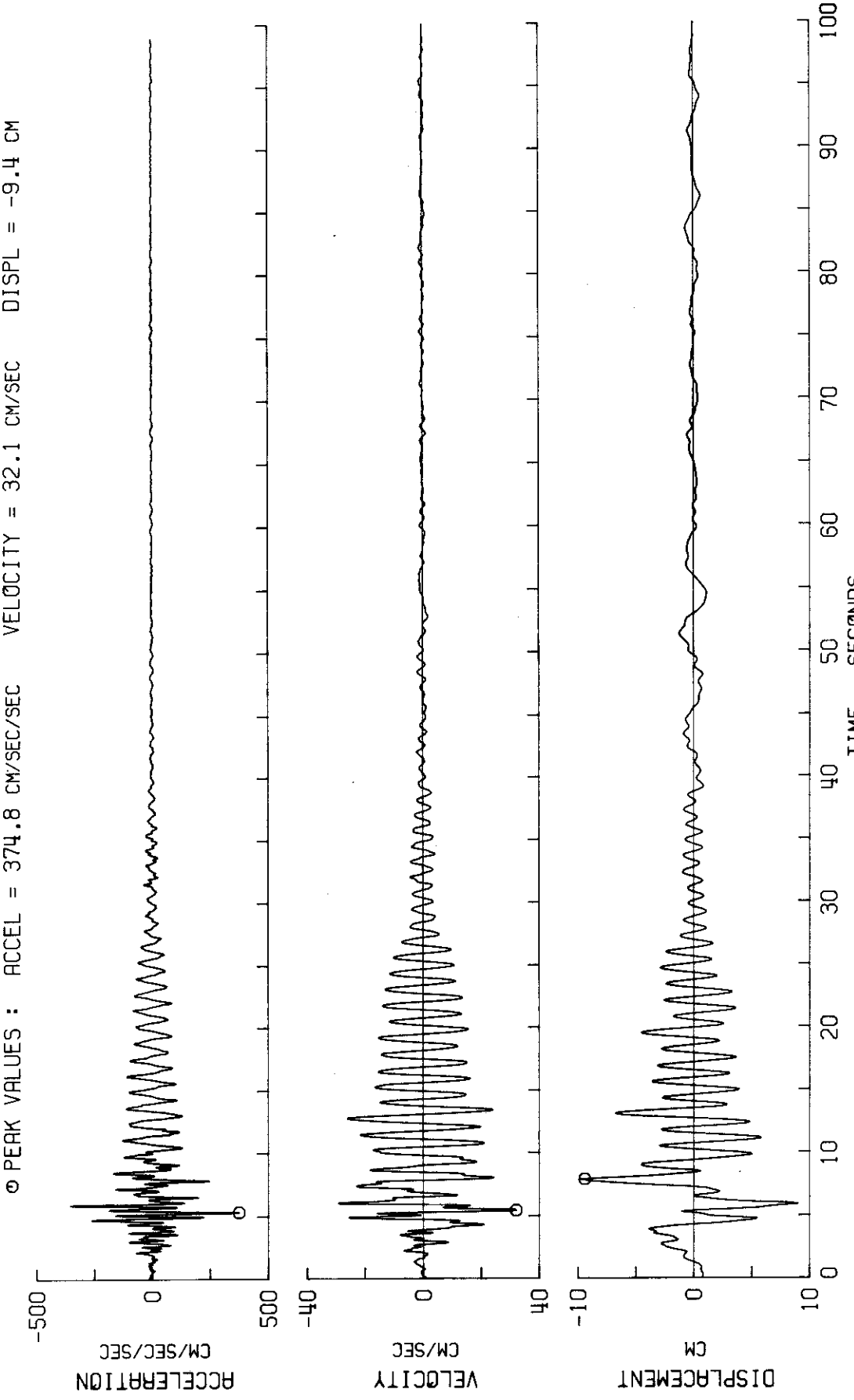

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG109 71.023.0 CALTECH MILLIKAN LIBRARY, 10TH FLOOR, PASADENA, CAL. COMP N90E
Θ PEAK VALUES : ACCEL = -340.8 CM/SEC/SEC VELOCITY = -49.6 CM/SEC DISPL = -11.7 CM
ACCELERATION
CM/SEC/SEC
-500
0
500
VELOCITY
CM/SEC
-50
0
50
DISPLACEMENT
CM
-20
0
20
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

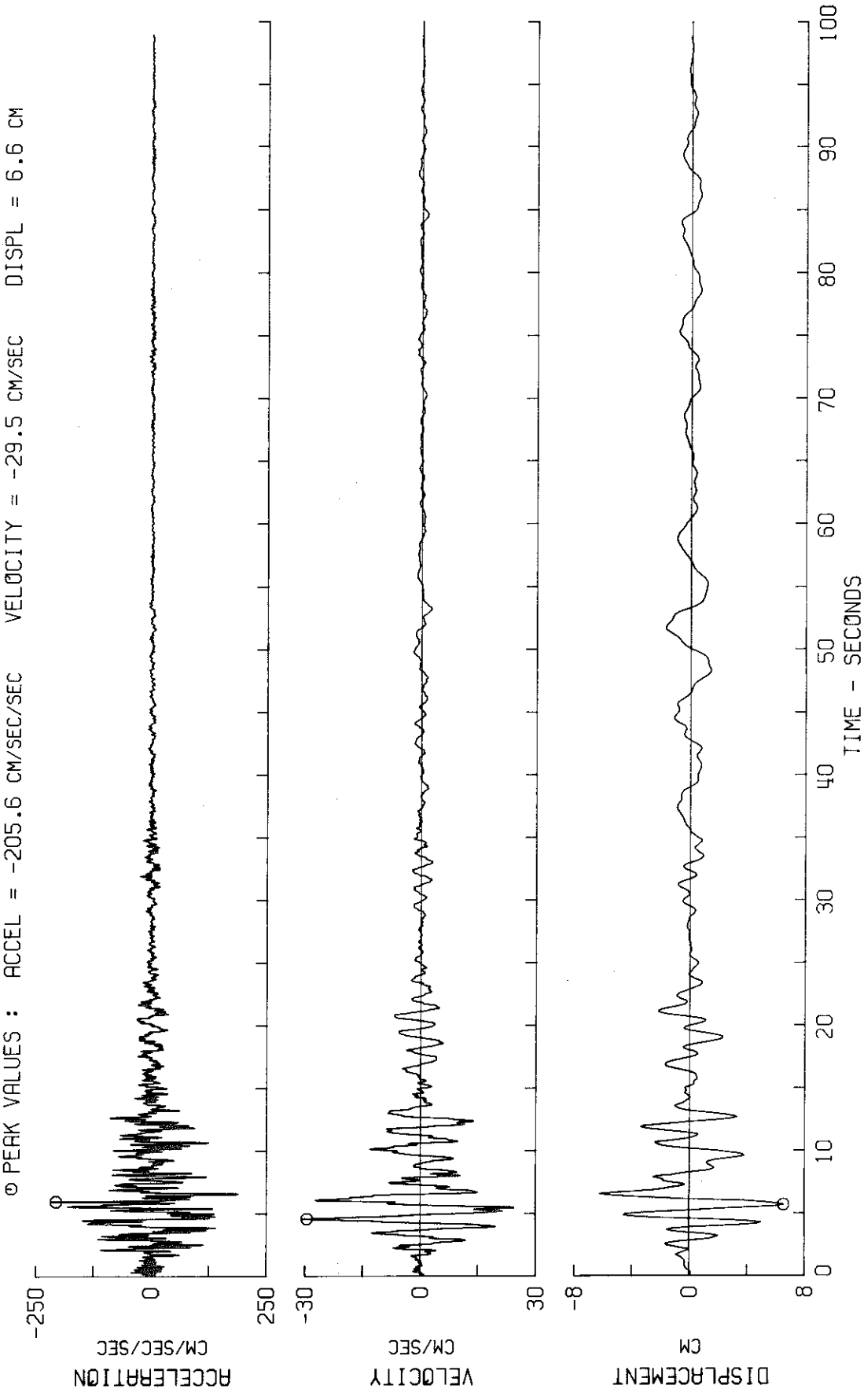

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG109 71.023.0 CALTECH MILLIKAN LIBRARY, 10TH FLOOR, PASADENA, CAL. COMP DOWN
⊙ PEAK VALUES : ACCEL = -119.4 CM/SEC/SEC VELOCITY = 7.3 CM/SEC DISPL = 2.7 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-8
0
8
DISPLACEMENT
CM
-4
0
4
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

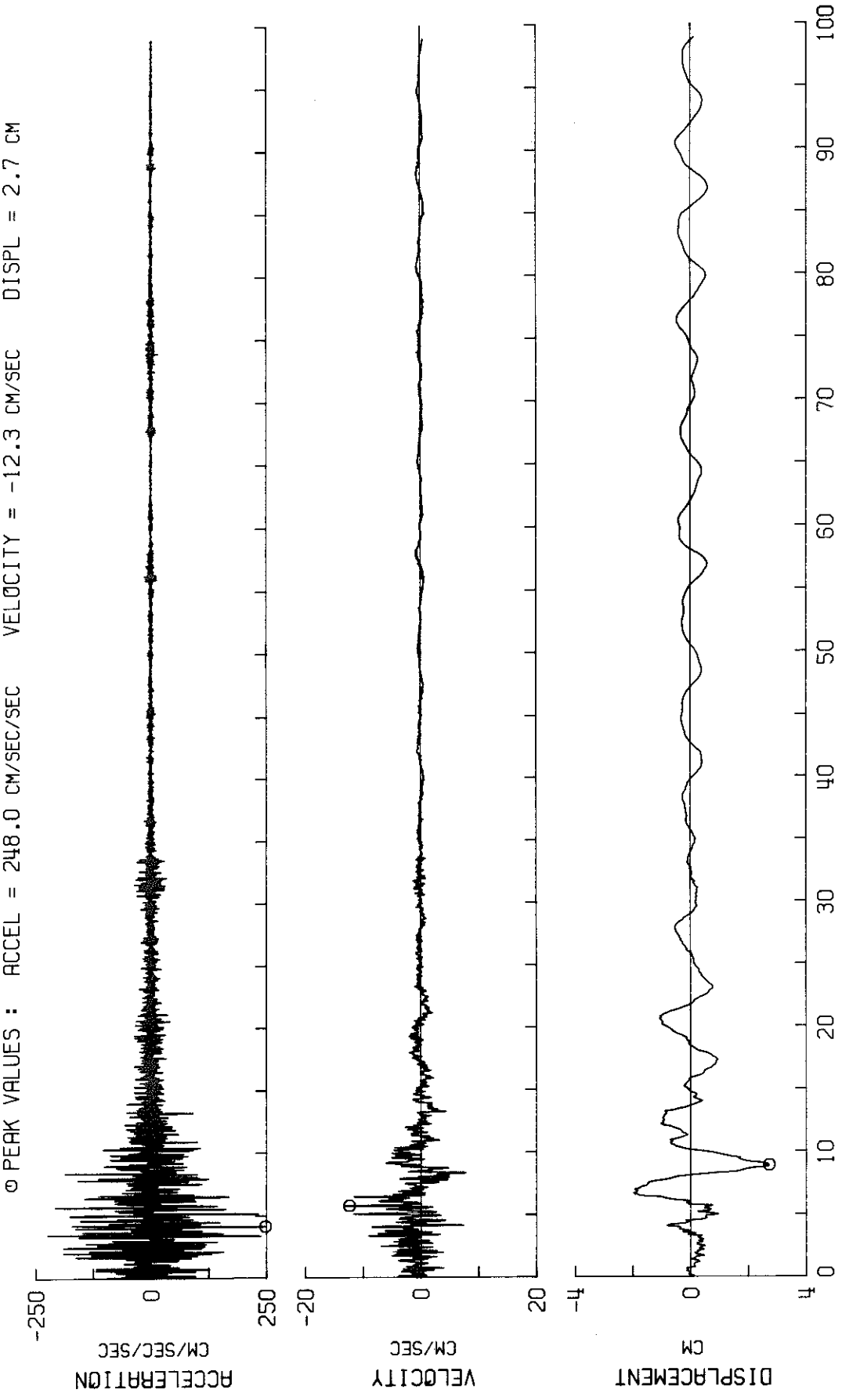

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG110 71.032.0 JET PROPULSION LAB., BASEMENT, PASADENA, CAL. COMP S82E
⊙ PEAK VALUES : ACCEL = 207.8 CM/SEC/SEC VELOCITY = 13.4 CM/SEC DISPL = -5.0 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-20
0
20
DISPLACEMENT
CM
-6
0
6
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

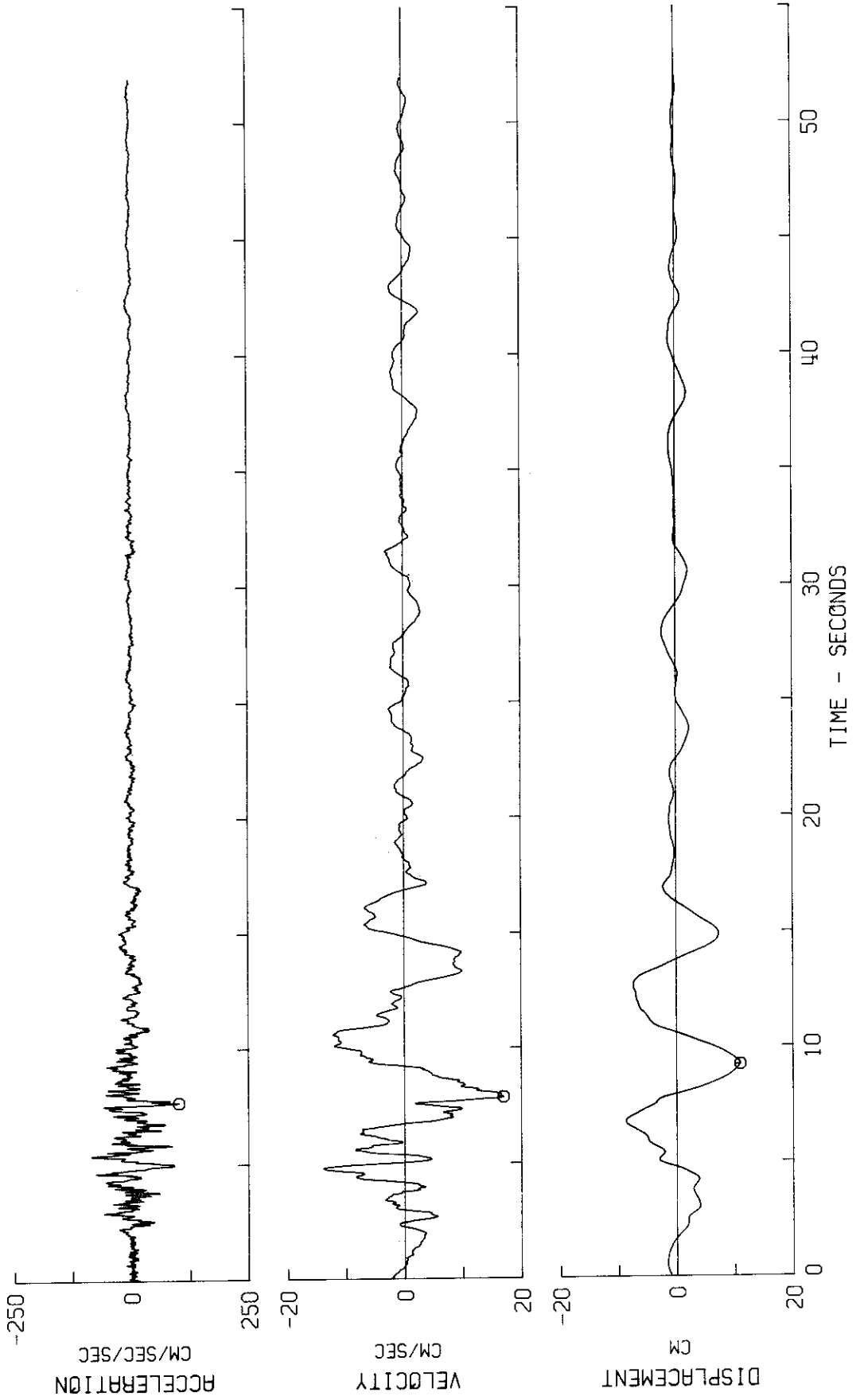

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG110 71.032.0 JET PROPULSION LAB., BASEMENT, PASADENA, CAL. COMP S08W
Θ PEAK VALUES : ACCEL = 139.0 CM/SEC/SEC VELOCITY = 9.0 CM/SEC DISPL = -2.9 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-10
0
10
DISPLACEMENT
CM
-4
0
4
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

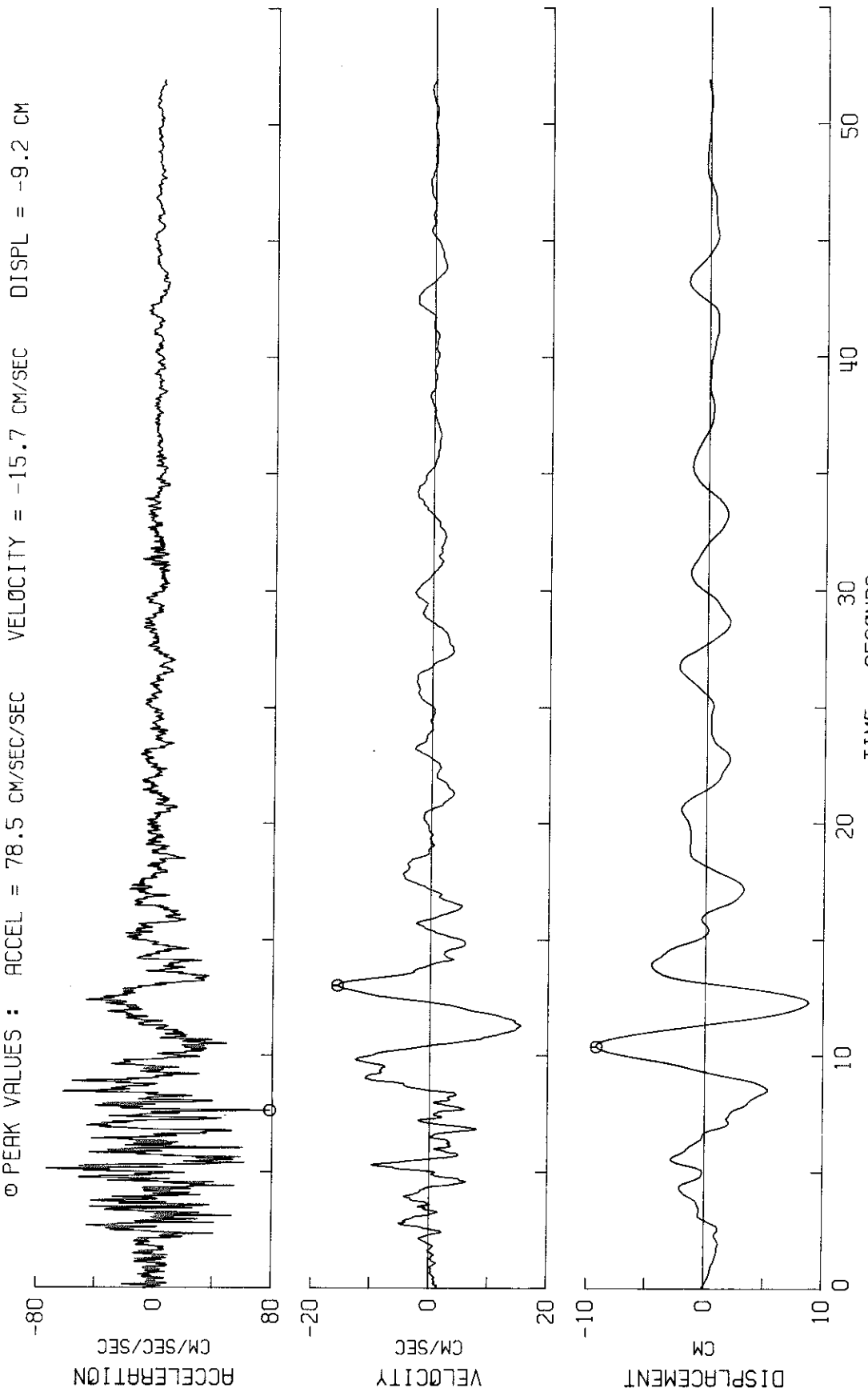

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG110 71.032.0 JET PROPULSION LAB., BASEMENT, PASADENA, CAL. COMP DOWN
⊙ PEAK VALUES : ACCEL = -126.3 CM/SEC/SEC VELOCITY = -5.7 CM/SEC DISPL = 2.6 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-6
0
6
DISPLACEMENT
CM
-4
0
4
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

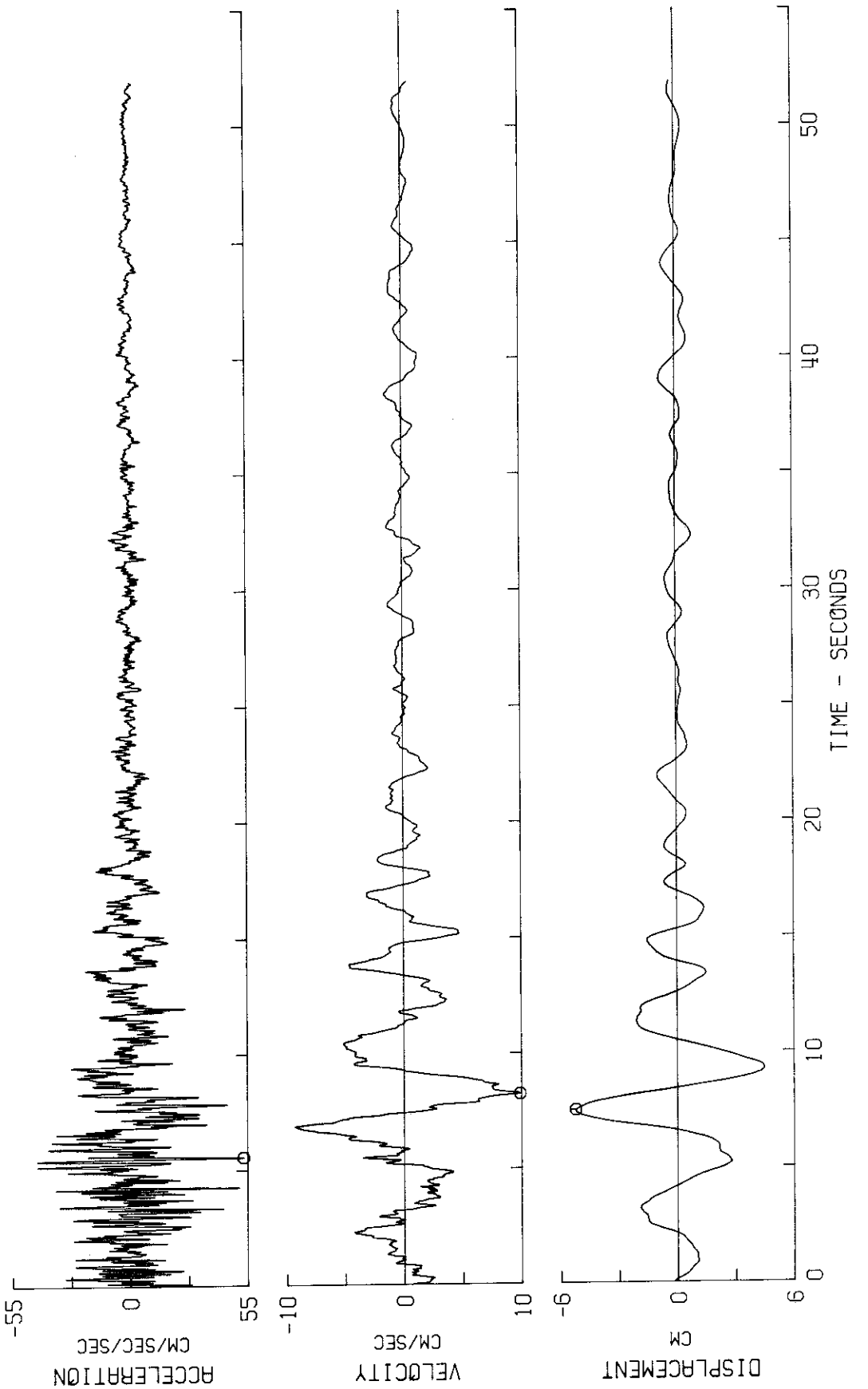

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG111 71.031.0 JET PROPULSION LAB., 9TH FLOOR, PASADENA, CAL. COMP S82E
Θ PEAK VALUES : ACCEL = 374.8 CM/SEC/SEC VELOCITY = 32.1 CM/SEC DISPL = -9.4 CM
ACCELERATION
CM/SEC/SEC
-500
0
500
VELOCITY
CM/SEC
-40
0
40
DISPLACEMENT
CM
-10
0
10
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

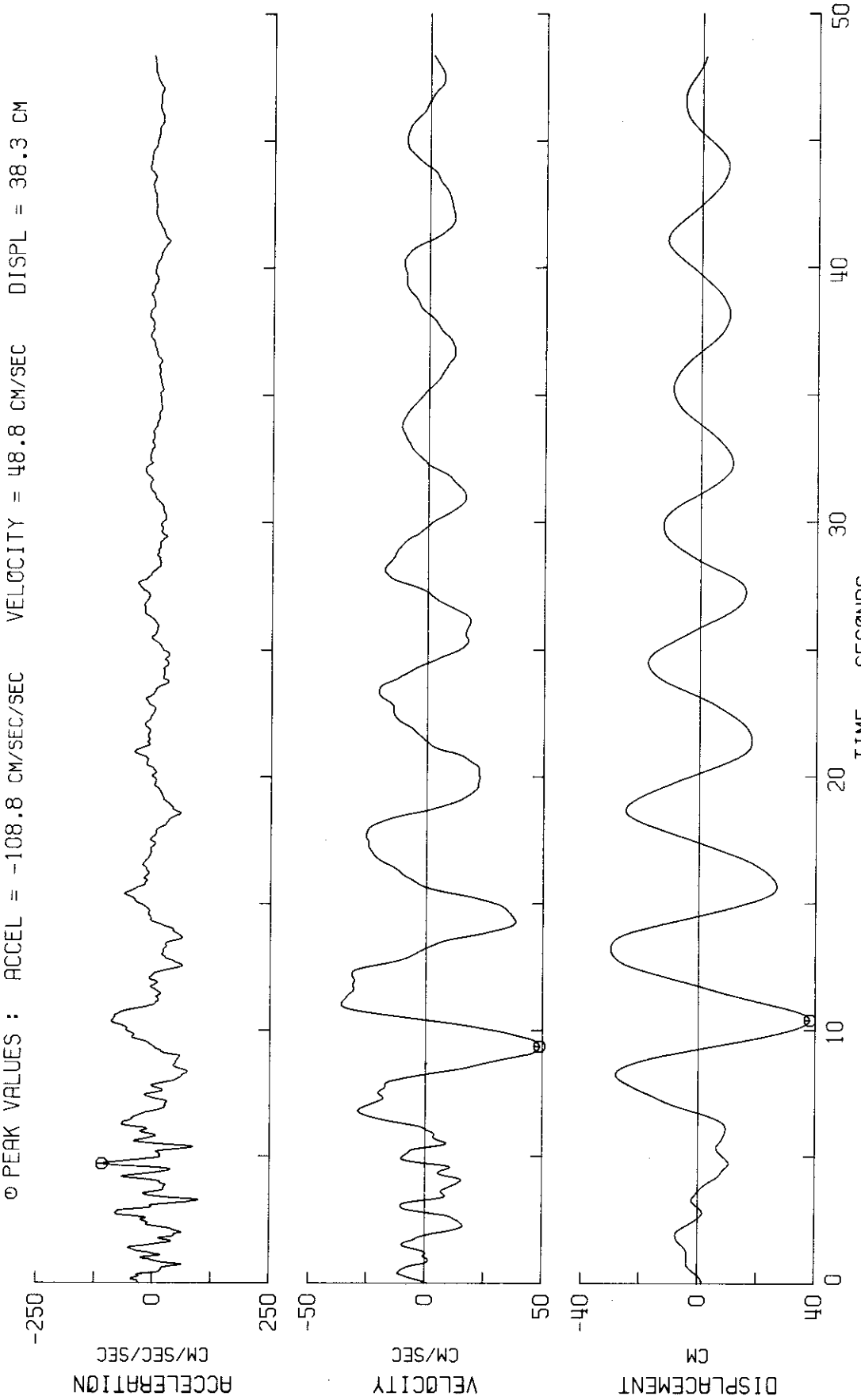

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG111 71.031.0 JET PROPULSION LAB., 9TH FLOOR, PASADENA, CAL. COMP S08W
⊙ PEAK VALUES : ACCEL = -205.6 CM/SEC/SEC VELOCITY = -29.5 CM/SEC DISPL = 6.6 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-30
0
30
DISPLACEMENT
CM
-8
0
8
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

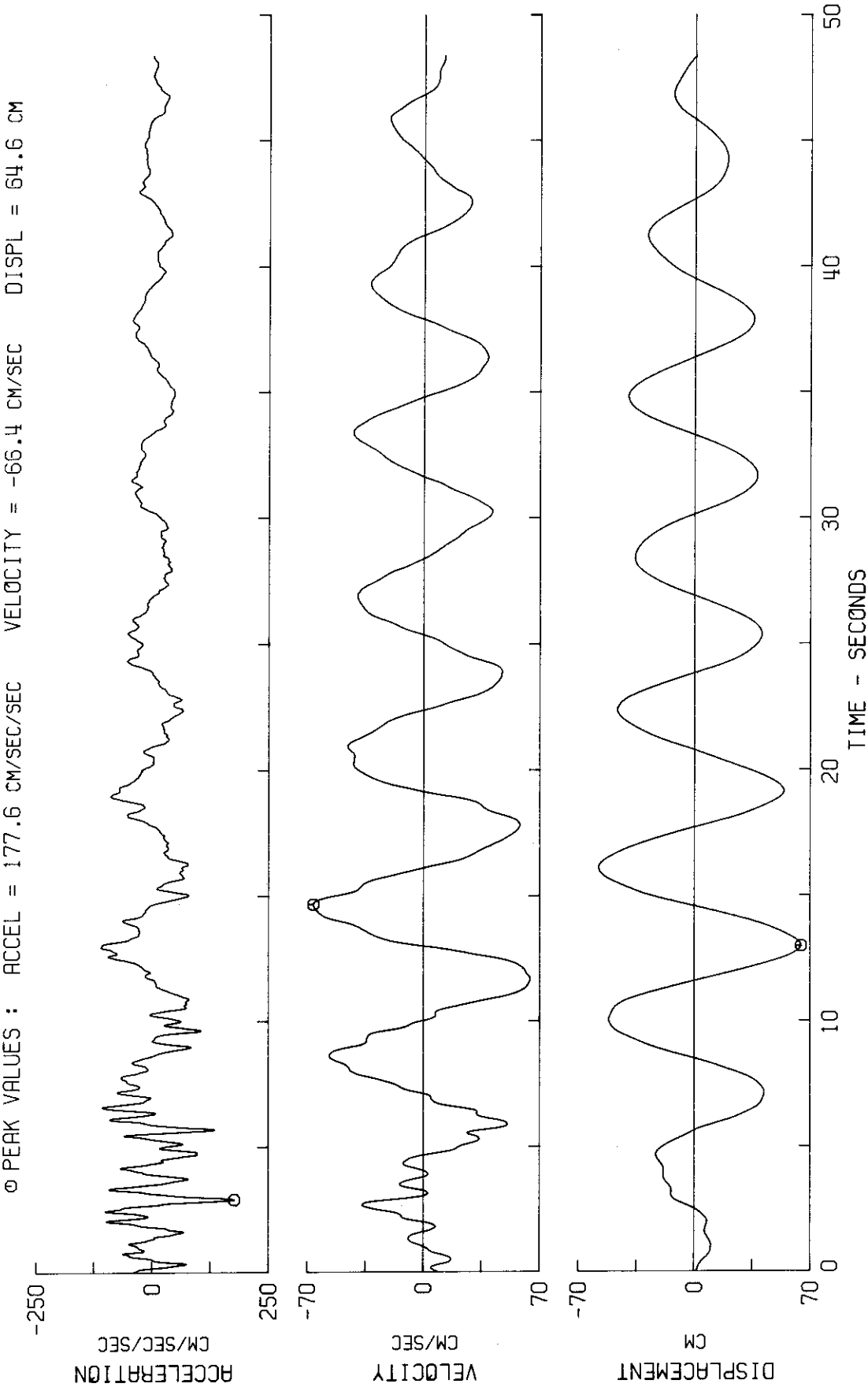

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG111 71.031.0 JET PROPULSION LAB., 9TH FLOOR, PASADENA, CAL. COMP DOWN
Θ PEAK VALUES : ACCEL = 248.0 CM/SEC/SEC VELOCITY = -12.3 CM/SEC DISPL = 2.7 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-20
0
20
DISPLACEMENT
CM
-4
0
4
0
10
20
30
40
50
60
70
80
90
100
TIME - SECONDS

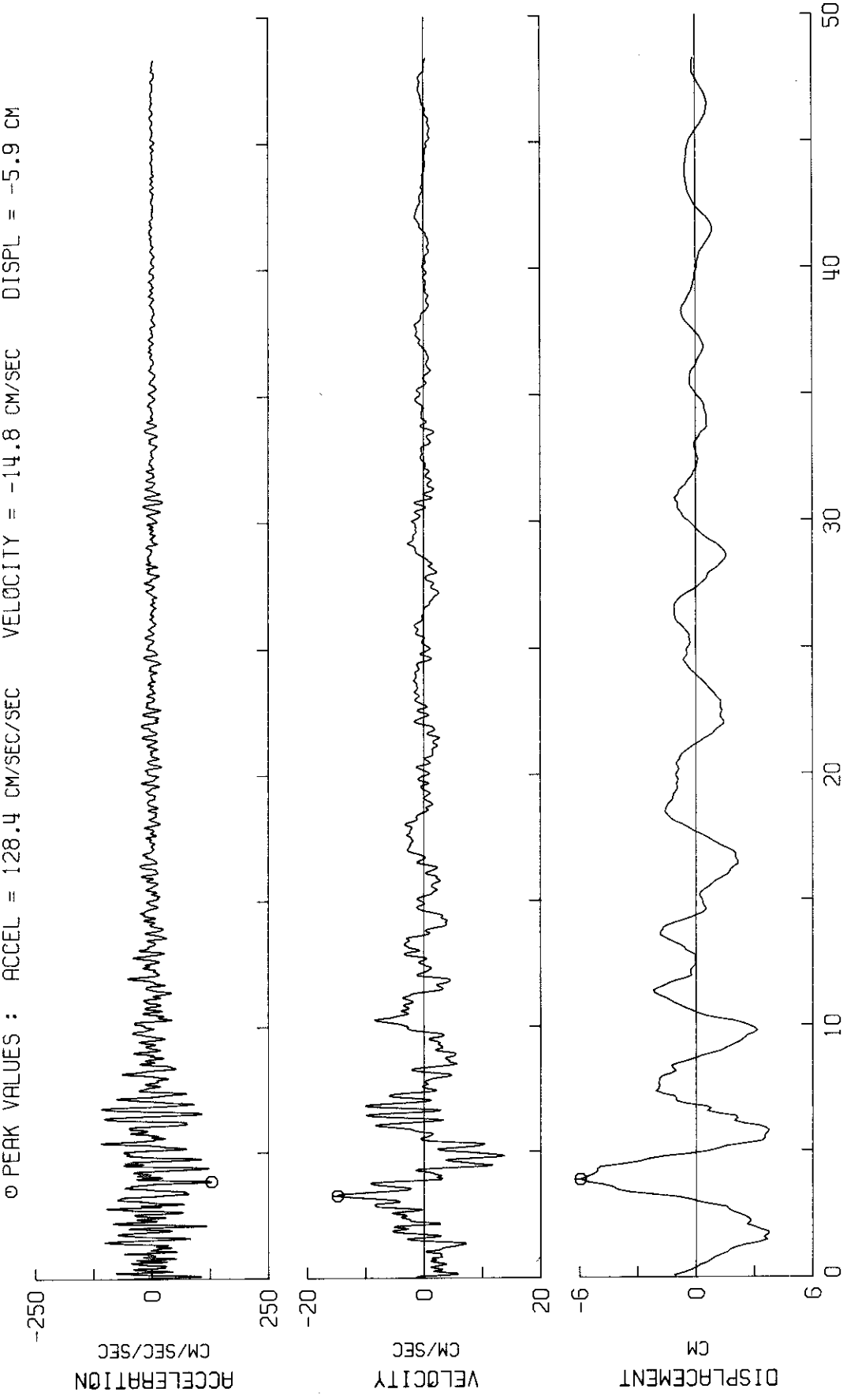

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG112 71.038.0 611 WEST SIXTH STREET, BASEMENT, LOS ANGELES, CAL. COMP N52W
Φ PEAK VALUES : ACCEL = 101.9 CM/SEC/SEC VELOCITY = 17.0 CM/SEC DISPL = 11.0 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-20
0
20
DISPLACEMENT
CM
-20
0
20
0
10
20
30
40
50
TIME - SECONDS

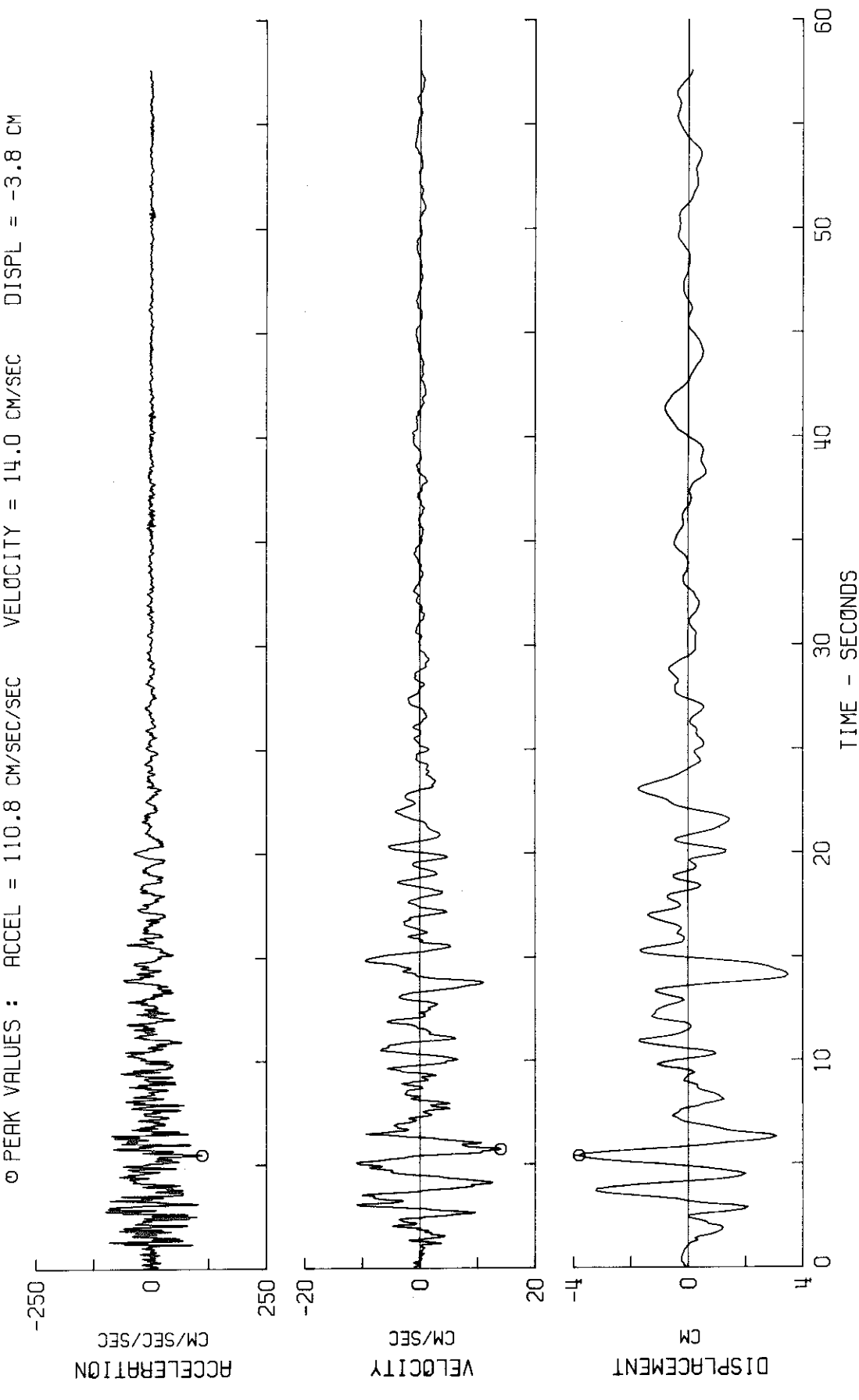

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG112 71.038.0 611 WEST SIXTH STREET, BASEMENT, LOS ANGELES, CAL. COMP N38E
⊙ PEAK VALUES : ACCEL = 78.5 CM/SEC/SEC VELOCITY = -15.7 CM/SEC DISPL = -9.2 CM
ACCELERATION
CM/SEC/SEC
-80
0
80
VELOCITY
CM/SEC
-20
0
20
DISPLACEMENT
CM
-10
0
10
0
10
20
30
40
50
TIME - SECONDS

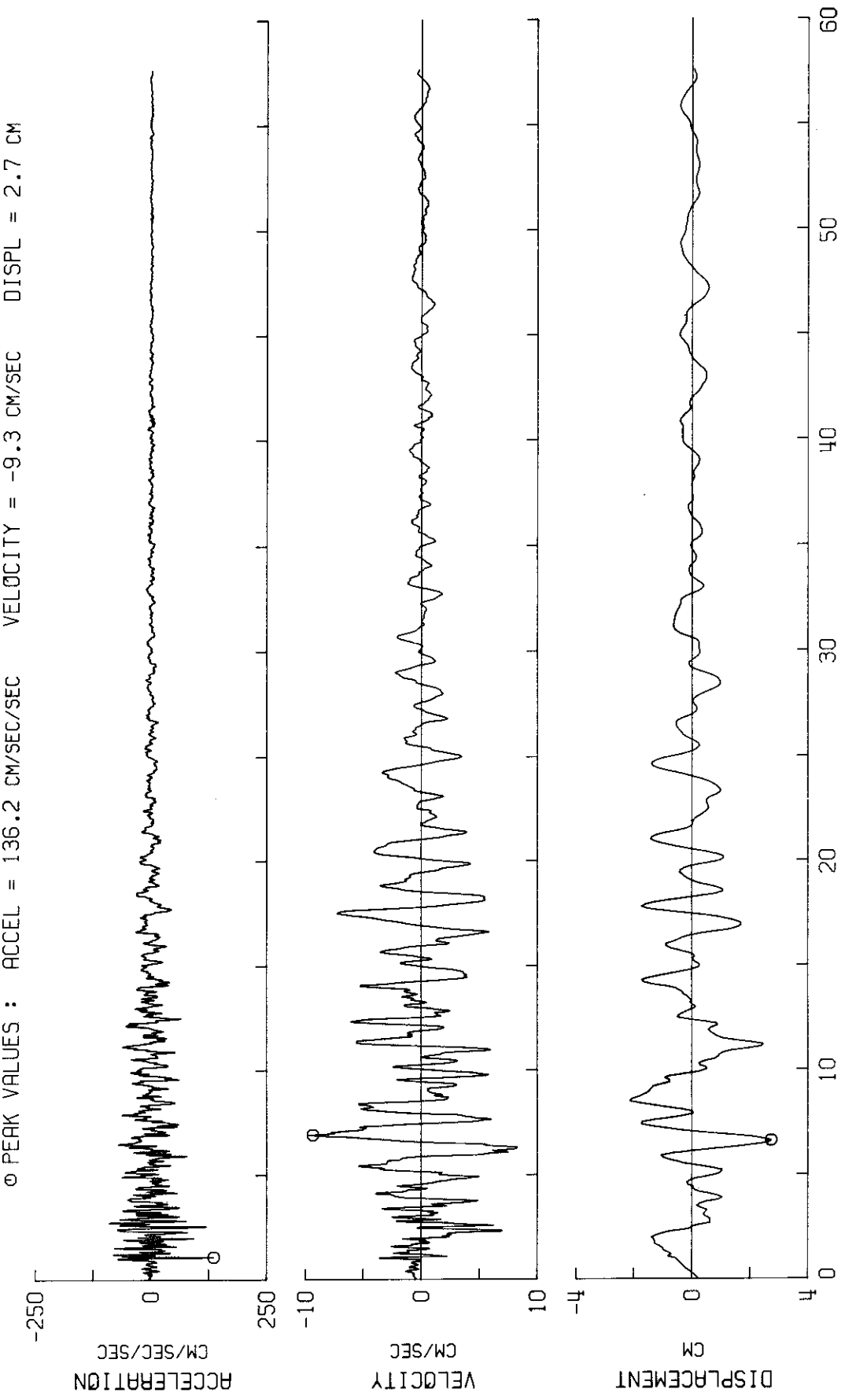

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG112 71.038.0 611 WEST SIXTH STREET, BASEMENT, LOS ANGELES, CAL. COMP DOWN
Φ PEAK VALUES : ACCEL = 53.2 CM/SEC/SEC VELOCITY = 9.9 CM/SEC DISPL = -5.2 CM
ACCELERATION
CM/SEC/SEC
-55
0
55
VELOCITY
CM/SEC
-10
0
10
DISPLACEMENT
CM
-6
0
6
0
10
20
30
40
50
TIME - SECONDS

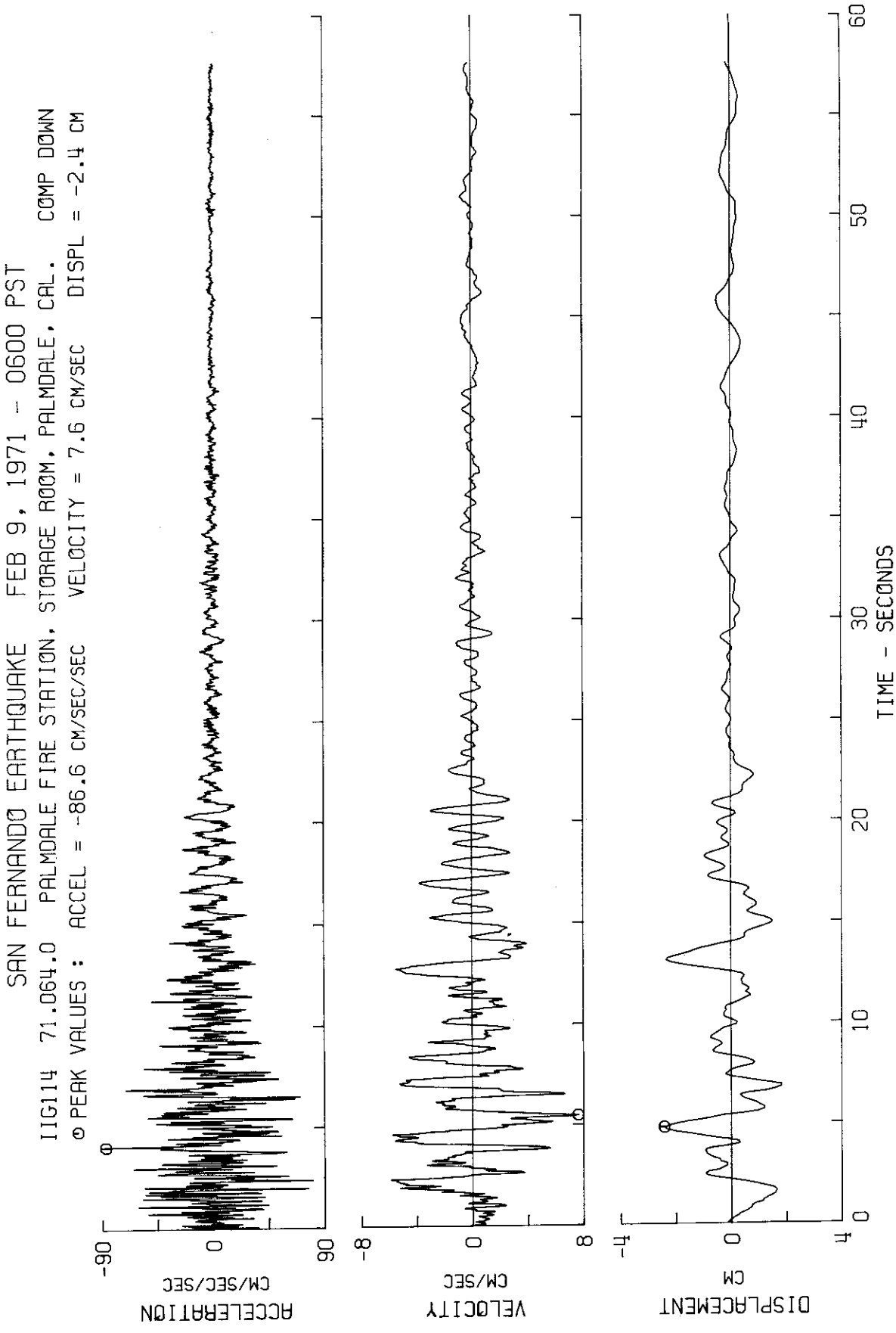

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG113 71.040.0 611 WEST SIXTH STREET, 42ND FLOOR, LOS ANGELES, CAL. COMP N38E
⊙ PEAK VALUES : ACCEL = -108.8 CM/SEC/SEC VELOCITY = 48.8 CM/SEC DISPL = 38.3 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-50
0
50
DISPLACEMENT
CM
-40
0
40
0
10
20
30
40
50
TIME - SECONDS


SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG113 71.040.0 611 WEST SIXTH STREET, 42ND FLOOR, LOS ANGELES, CAL. COMP N52W
Θ PEAK VALUES : ACCEL = 177.6 CM/SEC/SEC VELOCITY = -66.4 CM/SEC DISPL = 64.6 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-70
0
70
DISPLACEMENT
CM
-70
0
70
0
10
20
30
40
50
TIME - SECONDS


SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG113 71.040.0 611 WEST SIXTH STREET, 42ND FLOOR, LOS ANGELES, CAL. COMP DOWN
⊙ PEAK VALUES : ACCEL = 128.4 CM/SEC/SEC VELOCITY = -14.8 CM/SEC DISPL = -5.9 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-20
0
20
DISPLACEMENT
CM
-6
0
6
0
10
20
30
40
50
TIME - SECONDS


SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG114 71.064.0 PALMDALE FIRE STATION, STORAGE ROOM, PALMDALE, CAL. COMP S60E
⊙ PEAK VALUES : ACCEL = 110.8 CM/SEC/SEC VELOCITY = 14.0 CM/SEC DISPL = -3.8 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-20
0
20
DISPLACEMENT
CM
-4
0
4
0
10
20
30
40
50
60
TIME - SECONDS


SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG114 71.064.0 PALMDALE FIRE STATION, STORAGE ROOM, PALMDALE, CAL. COMP S30W
Θ PEAK VALUES : ACCEL = 136.2 CM/SEC/SEC VELOCITY = -9.3 CM/SEC DISPL = 2.7 CM
ACCELERATION
CM/SEC/SEC
-250
0
250
VELOCITY
CM/SEC
-10
0
10
DISPLACEMENT
CM
-4
0
4
0
10
20
30
40
50
60
TIME - SECONDS


SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIG114 71.064.0 PALMDALE FIRE STATION, STORAGE ROOM, PALMDALE, CAL. COMP DOWN
Φ PEAK VALUES : ACCEL = -86.6 CM/SEC/SEC VELOCITY = 7.6 CM/SEC DISPL = -2.4 CM
ACCELERATION
CM/SEC/SEC
-90
0
90
VELOCITY
CM/SEC
-8
0
8
DISPLACEMENT
CM
-4
0
4
0
10
20
30
40
50
60
TIME - SECONDS

IIG106 71.018.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 266 CALTECH SEISMOLOGICAL LAB., PASADENA, CAL. COMP S00W 34 08 55N,118 10 15W
INSTR PERIOD = 0.0460 SEC DAMPING = 0.580 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = -87.5 CM/SEC/SEC AT 5.14 SEC VELO = -6.0 CM/SEC AT 7.62 SEC DISP = 1.7 CM AT 10.94 SEC

INITIAL VELO = 0.49452 CM/SEC INITIAL DISP = 0.14434 CM

4950 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

88	-87	-78	88	99	0	11	15	-97	-129	-19	24	5	124	172	5	-136	-103	9	-26
-100	-4	142	87	83	-5	-246	-241	-82	94	215	222	126	-21	-174	-235	-118	-8	99	213
80	-86	-58	-32	-58	-30	36	80	43	-75	-137	-33	115	87	-47	-162	-182	-44	130	155
114	-6	-117	-193	-194	-121	-1	45	63	96	74	-13	-16	-1	15	67	152	115	-127	-265
-225	-152	79	199	130	81	54	-30	-120	-191	-201	-179	-5	238	395	437	265	-99	-331	-403
-363	-71	278	477	490	209	-152	-318	-432	-426	-233	8	177	315	352	99	-26	-77	-108	-136
-113	-142	-86	44	190	239	180	166	119	-45	-180	-165	-92	16	93	96	83	70	76	-56
-290	-389	-185	214	366	285	164	105	-127	-380	-331	-236	-119	-2	108	298	320	151	164	57
-184	27	261	197	124	72	-206	-257	-139	-139	-91	82	193	397	499	176	-377	-573	-469	-238
-72	-18	135	272	241	310	396	285	75	-109	-173	-173	-430	-616	-441	-253	-139	351	834	637
304	140	-66	-299	-489	-396	55	429	163	-94	-6	177	45	-112	-175	-194	-174	-74	-4	89
92	15	125	267	283	290	310	226	144	64	-146	-325	-245	-39	221	369	164	-158	-253	-40
57	-55	-47	-58	-337	-642	-736	-547	-35	565	778	639	269	-168	-521	-596	-668	-875	-766	-367
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505	262	42	143	304	240	85	-19	-94	-91	-36	-86	-214	-141	-27	-29	20	-12	-332	-409
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-237	-49	244	544	530	312	263	285	228	53	-187	-209	-12	145	230	168	129	86	100	241
164	-78	-88	0	-51	-159	-103	-126	-201	-82	161	340	381	193	54	62	-20	-227	-378	-392
-261	-130	-43	57	274	447	387	165	48	-53	-267	-478	-511	-355	-34	315	433	399	378	349
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-347	-210	-46	-12	38	-5	43	120	21	-8	48	85	135	174	91	-30	-172	-184	-58	40
78	55	-44	-76	-102	-191	-242	-268	-243	-176	-102	-14	-8	-97	-152	-129	-91	-55	-38	-39
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IIG106 71.018.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 266 CALTECH SEISMOLOGICAL LAB., PASADENA, CAL. COMP S90W 34 08 55N,118 10 15W
INSTR PERIOD = 0.0460 SEC DAMPING = 0.627 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = -188.6 CM/SEC/SEC AT 5.78 SEC VELO = -11.6 CM/SEC AT 5.52 SEC DISP = 5.0 CM AT 9.32 SEC

INITIAL VELO = -2.00033 CM/SEC INITIAL DISP = 0.13465 CM

4950 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

178	50	-8	-118	-173	-61	70	48	33	96	166	95	-20	-28	-5	-18	38	24	-51	-102
-54	83	124	20	53	117	98	27	-56	-136	-115	-12	55	125	115	22	-39	-57	-18	-64
-75	108	235	105	-85	-85	-16	-28	-55	-6	83	111	33	-13	43	125	111	12	-18	39
66	7	-5	33	13	-53	-31	73	136	144	120	127	60	-123	-212	-150	-59	30	51	101
150	66	-8	-1	33	49	-13	-103	-62	9	77	107	120	99	-19	-85	-22	40	52	-20
-116	-158	-104	11	133	232	243	128	-53	-207	-192	-67	48	224	305	254	138	-21	-184	-254
-232	-154	-14	77	230	268	207	140	-114	-432	-516	-360	-164	124	350	455	431	186	-27	-111
-54	-12	-11	-65	-98	-18	-97	-196	-151	2	130	65	-27	-24	37	-58	-337	-657	-784	-808
-759	-280	557	1170	1441	1360	798	247	-158	-479	-493	-337	-180	82	326	311	249	278	197	-194
-690	-813	-565	-341	-95	157	298	501	534	63	-479	-757	-743	-424	-67	60	27	102	273	221
177	426	548	301	-33	-87	-115	-282	-409	-528	-411	50	518	766	397	-236	-446	-232	-196	-487
-749	-400	377	760	621	204	-233	-356	-87	300	539	661	695	672	681	500	25	-544	-793	-722
-738	-636	-236	338	649	469	22	-336	-512	-718	-778	-663	-672	-700	-413	7	187	-102	-515	-631
-343	119	417	463	271	-20	-155	-220	-360	-236	315	789	476	-623	-1332	-983	-112	635	816	968
1245	1515	1733	1715	1304	601	-336	-1235	-1692	-1886	-1618	-593	169	315	356	240	82	180	380	400
170	-179	-672	-1028	-924	-679	-340	139	522	632	554	463	203	-171	-315	-261	-61	291	595	858
1131	1386	1487	1258	806	262	-475	-1048	-1254	-1242	-1124	-724	171	794	800	504	-37	-603	-867	-761
-530	-458	-330	-111	59	266	612	912	812	466	331	270	144	-17	-296	-496	-379	-322	-471	-486
-419	-209	213	396	276	244	71	-349	-612	-437	53	560	662	329	-88	-183	48	132	-2	41
293	546	673	508	151	-58	-45	-13	-73	-238	-353	-298	-82	213	163	-225	-300	26	547	795
555	180	30	166	278	257	247	35	-293	-418	-369	-378	-436	-466	-328	-75	231	422	460	535
504	191	-272	-585	-426	71	316	196	147	196	212	97	-102	-263	-302	-331	-469	-489	-267	-3
200	253	176	110	106	103	66	-39	-135	-178	-202	-321	-414	-383	-94	280	500	472	349	181
-92	-413	-585	-564	-478	-486	-514	-357	-6	243	165	-94	-312	-344	-246	-175	-101	81	241	160
-6	22	160	217	142	-18	-148	-219	-214	-214	-199	-148	-106	-124	-67	-36	-109	-75	10	73
76	38	56	3	-111	-213	-268	-227	-76	84	125	116	118	99	30	-43	-54	-33	9	-42
-89	23	129	219	226	146	115	94	-36	-69	-18	5	72	175	215	251	196	58	-113	-242
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271	122	-34	-89	-106	-88	-84	-146	-212	-220	-197	-125	-90	-102	-115	-42	77	196	257	193
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70	13	7	23	44	96	124	59	-30	-74	-39	38	72	63	56	59	28	-6	5	68

113	114	72	57	34	-1	-41	-54	-11	32	-2	-32	34	160	220	177	75	-48	-131	-133
-98	-44	25	80	82	65	6	-53	-87	-51	21	46	44	50	38	63	80	22	-35	-61
-45	8	35	-6	-45	-63	-82	-97	-89	-27	63	110	43	-56	-63	5	53	9	-62	-68
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-11	-25	-40	-69	-115	-130	-69	9	50	50	47	68	55	31	-5	-48	-91	-97	-47	-30
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98	71	24	-5	10	49	89	124	124	58	-6	-16	-5	4	7	0	22	83	141	125
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15	10	7	4	9	18	14	1	-7	-3	9	15	8	-4	-10	-9	-9	-9	-6	0
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32	22	12	-6	-25	-13	5	16	17	-3	-12	4	34	38	8	-11	-1	14	13	0
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-3	-3	-3	-3	-3	-3	-3	-3	-3	-3										

IIG106 71.018.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 266 CALTECH SEISMOLOGICAL LAB., PASADENA, CAL. COMP DOWN 34 08 55N,118 10 15W
INSTR PERIOD = 0.0460 SEC DAMPING = 0.576 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = 83.5 CM/SEC/SEC AT 5.68 SEC VELO = -5.9 CM/SEC AT 7.30 SEC DISP = -2.3 CM AT 8.22 SEC

INITIAL VELO = -0.41985 CM/SEC INITIAL DISP = 0.10962 CM

4950 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

80	136	-71	-138	4	84	21	124	73	-86	-18	86	-82	-141	-51	118	197	8	-77	0
-80	-48	14	-53	-7	189	162	-12	-61	-165	-165	-17	74	146	38	-83	-84	-72	-121	58
228	126	-30	-57	13	-15	-105	-114	-44	119	116	-40	-118	-63	140	225	56	-41	-95	-74
24	128	123	135	74	-23	-56	-13	31	85	61	44	-155	-271	-76	-101	-145	91	13	2
120	-46	-145	57	76	14	-33	27	69	111	195	-25	-308	-303	-273	-171	133	270	153	101
-56	-259	-337	-253	67	365	365	277	173	-106	-118	43	-28	-10	111	52	-37	2	-38	-9
-87	-28	-38	-165	-87	39	18	-57	-68	-58	125	27	-72	77	154	208	171	-31	-194	-86
109	25	-160	-404	-110	231	15	39	183	104	39	-82	-256	-128	-80	-153	-17	-190	-212	-97
-227	-253	241	427	371	336	409	268	-30	-195	-93	149	379	368	132	-21	81	6	-182	-132
-207	-403	-220	-14	89	111	7	126	158	-139	-422	-351	-56	-121	-254	-98	-126	-181	18	176
256	241	282	430	516	209	-163	-181	139	41	-85	74	148	71	42	-222	-373	-236	-125	-331
-424	-175	200	400	314	199	9	-220	-124	110	80	62	39	146	153	-8	-15	113	115	-25
-48	75	112	12	-154	-257	-240	7	21	-147	-75	-111	-3	281	295	105	-158	-493	-507	-293
45	62	-195	-268	-22	386	600	359	153	307	373	226	-33	-284	-327	-270	-170	-58	73	-80
-183	148	365	525	835	708	218	-107	-488	-664	-154	154	19	74	294	162	-45	-182	-179	-124
-47	76	-13	-123	-171	-307	-318	-246	72	359	532	451	221	33	-106	-139	-199	-306	-260	-34
14	-134	-107	67	82	-284	-456	-287	-36	190	296	307	236	42	-91	-116	-228	-200	-42	-57
-129	-218	-93	95	76	50	126	50	-180	-98	-45	-244	-314	-115	-71	-115	-99	-202	-345	-267
-132	-229	-191	-123	-143	23	139	8	52	204	227	205	171	30	3	29	51	-67	-161	-129
-89	-71	-38	-60	6	173	243	161	142	8	-163	-92	-38	77	192	181	125	179	222	165
257	208	-51	-34	102	56	-12	-12	-98	91	235	306	342	152	-34	-40	17	-79	-123	16
39	-120	-202	-119	-75	-25	25	4	-2	165	189	136	105	-19	0	-7	-70	-46	-29	91
238	181	44	106	172	46	16	175	191	214	152	-8	-60	-10	-11	29	1	-21	76	48
10	36	-61	-81	-44	-129	-101	17	44	-23	-26	-84	-175	-177	-200	-224	-71	17	-26	-71
47	-10	-69	-22	25	158	224	143	-26	-107	-111	-123	-81	-55	51	114	37	-16	49	124
108	60	38	-48	-111	-138	-133	-124	-43	65	102	51	-7	-30	-118	-99	-21	-180	-274	-241
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-25	11	-69	-55	46	56	-65	-109	-1	80	59	-45	-179	-228	-150	-56	-11	5	-17	-29
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276	156	56	55	49	34	18	3	103	180	203	241	216	165	132	128	92	132	124	9
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IIG107 71.019.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 475 CALTECH ATHENAEUM, PASADENA, CAL. COMP N00E 34 08 20N,118 07 17W
INSTR PERIOD = 0.0378 SEC DAMPING = 0.601 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = 93.5 CM/SEC/SEC AT 7.66 SEC VELO = -8.0 CM/SEC AT 11.46 SEC DISP = 3.0 CM AT 14.88 SEC

INITIAL VELO = -0.11072 CM/SEC INITIAL DISP = -0.11642 CM

1429 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

40	20	-32	7	24	4	-12	13	20	37	45	44	2	24	-27	-30	33	4	-29	10
29	-22	-34	18	64	-18	-86	-31	-29	-19	52	41	-18	-53	32	42	28	18	-24	-25
-56	-5	-8	42	43	3	-8	39	22	-10	5	9	-13	-41	-40	-17	-29	-4	45	13
-96	-67	-12	19	2	-5	5	12	10	38	28	13	26	36	-23	-51	-41	6	34	39
3	-5	-42	17	21	29	-46	-124	-62	-18	53	48	2	-29	-42	17	31	53	-19	-25
5	-13	-32	-26	25	21	63	24	-9	16	20	31	42	-38	-60	-29	33	-23	-61	-9
-27	-57	-31	31	30	16	32	63	62	25	1	9	-16	16	10	-69	-45	-4	34	27
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16	-15	8	108	82	8	-28	27	81	-23	-65	-64	-67	-19	-18	-34	-49	9	55	70
-5	-63	-43	3	-24	-20	-37	57	25	-10	31	63	37	27	-14	12	11	-53	-64	17
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34	6	81	34	-51	-78	-26	9	55	29	-49	-106	-168	-190	-114	-67	-86	-64	-37	-57
-7	64	64	-3	10	30	31	42	127	20	-21	73	179	146	121	37	202	407	554	408
192	-49	-252	-517	-669	-538	-429	-579	-547	-381	-214	160	412	404	359	161	-168	127	343	306
-49	141	233	-3	1	183	-35	-214	-201	-51	-207	-117	-69	-218	-77	183	144	120	272	190
312	425	242	-31	-197	-100	-253	-519	-235	-8	-159	-251	-166	228	406	437	335	-58	-284	17
240	117	-11	98	315	-26	-359	-336	-297	-281	-294	-368	-407	-249	81	159	251	463	398	96
-131	-71	-65	4	190	156	185	-152	-147	205	424	461	75	-242	-228	217	462	299	-127	-161
-34	-47	-204	-156	213	367	269	222	211	222	181	314	60	-369	-535	-446	-249	-149	-42	24
80	360	581	935	697	282	-187	-531	-555	-576	-785	-851	-804	-565	-309	-198	-252	-20	219	133
193	370	151	-32	190	613	520	319	29	-216	214	537	691	230	-429	-546	-507	-416	-167	23
259	280	181	104	35	74	211	283	-21	-70	26	-131	-289	-367	-283	-201	-324	-360	-280	-283
-319	-193	238	206	28	-18	259	129	93	312	265	134	50	69	9	-249	-62	282	303	253
307	284	54	-395	-363	-217	-138	80	47	-199	-337	-306	-130	7	-173	-563	-666	-545	-343	-63
-70	-194	-205	-12	236	-11	-152	-54	295	385	345	351	115	4	65	454	461	160	23	112
51	162	444	579	460	194	16	-89	-36	25	-236	-455	-586	-530	-477	-482	-322	-38	115	185
287	247	259	266	-38	-179	-175	-34	-18	-79	-123	-131	-27	228	168	-34	-42	74	176	283
462	414	342	531	731	650	405	95	-77	-181	-195	-193	-224	-190	-181	-262	-311	-324	-301	-231
-306	-481	-571	-520	-507	-486	-312	-286	-350	-398	-266	-94	-42	13	173	339	393	400	536	562
481	320	187	229	203	87	-193	-234	-13	211	-4	-197	-184	-57	-9	65	31	-53	-64	14
138	251	217	146	135	202	237	241	213	197	248	149	-16	-25	136	177	173	174	138	-14
-27	17	16	1	-117	-214	-282	-341	-271	-209	-186	-201	-150	-16	-35	-87	-56	75	190	180
65	-91	-80	-51	-46	-87	-82	-98	-114	-98	-25	62	47	-26	29	106	98	41	-52	-54
-4	79	64	-59	-155	-148	-108	-13	54	38	14	-9	11	78	138	126	-19	-47	-8	-56
-138	-113	-116	-103	-34	94	99	21	1	24	40	105	114	73	-76	-153	-120	-97	-7	45
81	64	96	106	52	34	77	211	330	396	414	373	277	293	358	356	184	-1	-115	-159
-174	-171	-176	-175	-183	-198	-175	-146	-161	-191	-154	-93	-34	26	76	67	2	-90	-157	-206
-202	-216	-194	-169	-216	-294	-317	-267	-249	-228	-175	-143	-107	-138	-169	-127	-61	-20	-25	-59
-54	-63	-34	17	49	36	7	-20	-17	27	35	-7	-53	-127	-171	-182	-128	-116	-144	-145
-70	11	63	108	117	150	217	274	267	211	221	242	218	177	155	143	73	45	64	100

132	152	189	163	143	160	209	171	87	70	77	89	99	64	-9	-76	-93	-89	-148	-160
-158	-165	-175	-146	-83	-70	-86	-45	0	46	59	28	-28	-39	-24	-42	7	57	69	41
103	156	125	84	90	67	7	1	39	43	66	89	144	139	84	96	97	87	138	183
134	82	69	64	63	73	-7	-83	-93	-90	-134	-129	-92	-71	-107	-120	-121	-102	-47	-28
-52	-117	-120	-24	40	50	19	-18	-58	-51	-29	-44	-5	33	46	48	64	120	140	154
155	132	83	32	16	42	30	8	37	55	13	-15	-43	-107	-188	-211	-173	-142	-156	-150
-140	-124	-94	-51	-16	20	44	36	31	33	70	93	88	41	21	15	-7	-25	-46	-76
-118	-116	-82	-70	-84	-137	-165	-150	-119	-106	-77	-26	-3	-8	-12	-16	-30	-8	52	63
5	-16	5	13	32	47	23	9	-18	-39	-66	-52	-20	-8	-23	5	21	-20	-25	-10
-23	-21	47	67	49	14	88	142	144	109	77	101	131	171	165	128	99	62	20	-17
-19	1	4	0	1	-20	-25	-31	4	-5	-43	-71	-119	-119	-101	-132	-130	-136	-133	-98
-91	-102	-130	-117	-42	35	56	40	48	69	95	131	180	206	189	172	166	160	169	180
180	158	97	49	7	-51	-83	-85	-106	-158	-176	-159	-141	-161	-175	-135	-133	-171	-169	-136
-141	-136	-86	-62	-43	-36	-25	-21	-23	-22	-45	-61	-64	-70	-70	-98	-104	-80	-43	-4
4	15	50	71	49	57	98	128	107	110	146	166	152	113	94	88	104	129	146	143
117	99	101	68	16	-16	2	-1	-43	-61	-46	-28	-7	16	42	52	67	79	78	55
33	22	40	42	0	-9	5	14	6	-15	-33	-38	-33	-24	-1	2	-20	-38	-34	-26
-16	-17	-28	-27	-25	-17	4	1	-18	-49	-69	-51	-9	7	-9	-44	-75	-83	-63	-52
-52	-58	-47	-26	10	41	36	35	71	109	132	116	85	72	115	172	192	167	142	125
102	87	70	47	23	10	10	20	0	-21	-36	-37	-35	-35	-34	-42	-70	-87	-70	-37
-32	-50	-59	-64	-71	-70	-60	-45	-40	-42	-40	-47	-69	-51	-19	6	19	3	-26	-41
-33	5	40	61	55	29	-5	-16	-18	-27	-33	-45	-46	-65	-82	-75	-52	-30	-52	-46
-42	-36	-10	-18	-18	-15	-5	-2	-15	-12	22	57	38	13	37	38	28	23	0	-32
-36	-36	-60	-51	-43	-72	-100	-129	-146	-152	-138	-115	-119	-125	-88	-53	-33	-16	-14	-23
-34	-16	28	44	48	45	75	89	86	81	63	55	65	93	90	68	53	45	56	86
91	75	70	66	56	30	14	-3	-27	-34	-38	-32	-24	-29	-44	-56	-41	-31	-23	-44
-44	-36	-30	-2	4	14	9	35	63	74	52	23	11	2	-5	-13	-23	-24	1	31
36	40	59	72	64	44	14	-7	-10	31	56	60	54	34	27	48	92	110	102	85
78	91	91	78	57	56	77	70	47	13	-14	-27	-13	-15	-44	-80	-111	-123	-115	-96
-101	-123	-136	-126	-102	-84	-81	-74	-53	-31	-17	-33	-52	-44	-35	-23	-12	7	13	14
16	14	33	64	85	92	75	51	41	58	68	58	41	20	19	35	42	29	25	52
57	39	27	11	-7	5	-6	-22	-40											

IIG107 71.019.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 475 CALTECH ATHENAEUM, PASADENA, CAL. COMP N90E 34 08 20N,118 07 17W
INSTR PERIOD = 0.0367 SEC DAMPING = 0.550 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = -107.3 CM/SEC/SEC AT 7.90 SEC VELO = 14.3 CM/SEC AT 7.80 SEC DISP = -7.4 CM AT 11.66 SEC

INITIAL VELO = 0.90127 CM/SEC INITIAL DISP = -0.49713 CM

1430 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

-30	-5	-15	-3	14	34	36	0	-4	-10	1	-9	-15	5	-10	-37	-31	-8	20	36
65	17	-16	-21	-24	-23	-49	-31	23	38	43	16	45	21	13	2	-27	-33	-59	-57
-31	-43	8	52	63	30	6	-17	-66	-97	-38	23	29	27	-9	-8	-20	-11	15	17
-1	2	8	-3	23	6	-8	6	29	-13	-13	-58	-64	-67	-32	-20	-51	-24	7	21
20	17	52	57	13	14	-8	-62	-49	-41	-9	2	-1	35	-11	-27	9	16	17	11
-6	11	6	-41	-61	-1	14	12	6	19	34	-2	-25	-22	-38	-10	-17	-37	-12	52
24	-28	-19	1	31	7	24	36	12	-20	-50	-16	0	32	66	49	16	-58	-103	-110
-80	-31	-17	33	63	41	55	34	32	26	-20	-58	-68	-19	-76	-119	-134	3	46	-11
-40	-29	-42	3	31	34	23	-30	-15	6	-28	-33	-25	7	-6	0	-22	-69	-51	-9
23	3	-13	18	15	20	0	4	35	-25	-68	-85	-58	-65	-105	-42	18	13	-42	-33
12	20	54	95	67	-3	-10	2	21	45	38	7	-2	-15	-74	-109	-87	-59	-82	-13
8	-7	3	38	54	64	89	66	42	-18	-35	-30	-44	-30	-54	-55	-71	-37	47	102
130	178	154	44	-76	-69	-65	-166	-166	-50	26	98	191	231	193	84	88	178	222	219
153	143	196	249	164	-3	-286	-634	-818	-835	-760	-549	-287	-98	-112	3	197	430	539	412
141	100	237	274	410	474	268	-22	-158	-202	-133	-274	-340	-169	90	247	339	389	312	184
155	111	-45	-202	-166	-39	-41	-54	-37	-165	-389	-480	-498	-298	39	313	473	548	605	498
184	-89	-298	-316	-240	56	436	677	764	539	65	-346	-540	-583	-574	-610	-569	-297	-80	99
338	311	105	-149	-191	-59	64	-49	-69	163	182	47	-35	11	73	-69	-196	-109	147	522
764	621	275	268	375	443	333	307	380	434	523	586	405	13	-406	-540	-552	-383	-463	-693
-589	-144	347	627	731	829	815	713	507	292	24	-298	-637	-878	-1058	-1073	-1003	-1021	-1026	-985
-879	-617	-321	-113	33	181	294	379	486	393	215	158	208	285	200	-42	-191	-167	96	268
129	-199	-376	-305	124	486	608	606	366	337	384	216	43	-106	-164	-240	-370	-494	-597	-731
-810	-758	-497	-360	-471	-627	-478	-216	-93	115	327	413	503	629	787	776	377	-14	-25	96
228	189	35	-42	-35	-19	-25	76	159	126	61	0	43	226	348	235	142	171	294	354
232	74	-8	-117	-199	-391	-551	-565	-562	-507	-439	-354	-422	-513	-510	-295	25	103	3	-42
-99	-148	-169	-144	35	136	118	195	480	704	683	488	321	238	88	-85	-162	-119	-49	-49
-74	-111	-202	-315	-413	-450	-454	-424	-425	-394	-299	-79	141	252	292	153	38	17	-63	-177
-183	-165	-254	-367	-287	-171	-124	-50	45	32	-131	-256	-277	-161	17	94	202	338	416	410
296	232	237	307	441	458	357	190	70	-13	-101	-142	-59	-22	-97	-51	122	224	231	305
400	476	473	451	449	441	387	372	436	524	441	290	190	131	65	-77	-173	-208	-211	-69
8	-48	-151	-264	-254	-242	-276	-268	-277	-231	-127	13	123	120	186	196	122	125	71	-1
-19	69	168	132	79	11	-47	-11	42	172	309	350	316	231	198	239	326	405	483	457
331	193	60	17	43	-51	-151	-218	-281	-295	-306	-331	-342	-457	-548	-578	-607	-628	-585	-508
-445	-382	-343	-366	-334	-254	-170	-114	14	141	225	340	429	494	494	489	476	384	301	229
164	107	41	-53	-165	-194	-133	-106	-171	-231	-280	-340	-358	-315	-277	-298	-256	-191	-157	-165
-197	-196	-181	-136	-124	-121	-114	-102	-75	-36	6	72	116	212	332	413	411	362	319	293
206	107	34	-6	-25	-49	-75	-101	-118	-131	-156	-187	-173	-139	-125	-108	-88	-31	58	94
86	94	99	88	74	64	93	107	106	102	82	52	25	-34	-125	-199	-206	-205	-228	-252
-235	-191	-185	-163	-93	-23	15	14	36	92	155	153	111	66	66	87	38	-34	-56	-24
6	51	116	142	145	120	112	103	39	-2	-15	-35	-20	6	41	113	133	83	8	-78

-171	-262	-313	-319	-274	-243	-244	-198	-162	-114	-91	-90	-75	-47	-35	-36	-50	-69	-100	-108
-99	-138	-172	-169	-170	-177	-181	-150	-88	-17	68	133	157	174	196	229	259	284	300	312
340	395	433	422	396	384	376	334	282	224	184	156	134	111	74	43	36	4	-25	-37
-64	-100	-110	-95	-69	-39	-20	-38	-37	-37	-89	-149	-158	-124	-88	-64	-96	-127	-111	-56
-1	60	100	110	157	209	221	206	192	177	139	95	80	83	97	118	142	183	171	114
66	34	14	-16	-59	-83	-90	-100	-115	-129	-169	-240	-289	-323	-328	-308	-288	-267	-252	-241
-229	-221	-213	-193	-174	-141	-74	-10	6	0	-1	7	25	39	45	41	14	-26	-55	-57
-30	2	6	26	41	40	37	51	47	0	-35	-35	-14	25	69	97	107	79	53	37
16	-4	7	16	19	26	55	72	56	8	-34	-70	-95	-88	-61	-37	6	48	60	50
38	27	19	0	-28	-36	-13	39	102	148	150	138	128	111	90	86	89	80	90	99
72	34	-7	0	33	46	43	30	50	84	74	50	32	2	8	60	110	137	126	106
99	71	35	0	-30	-41	-46	-72	-101	-108	-97	-90	-87	-90	-82	-56	-54	-87	-81	-43
-24	-29	-34	-39	-59	-70	-67	-63	-85	-110	-108	-80	-44	0	19	11	24	31	7	21
59	74	61	22	-7	-37	-57	-39	-11	-16	-37	-40	-14	-5	-32	-51	-77	-108	-128	-126
-119	-108	-89	-78	-70	-63	-58	-56	-58	-57	-39	-3	10	12	11	24	68	86	91	98
102	95	95	94	62	16	-11	-3	9	-2	-21	-15	11	39	55	56	25	-8	-10	12
39	40	33	26	20	21	21	5	0	6	3	-2	3	24	62	94	111	109	97	88
86	75	57	55	64	65	63	66	43	4	-41	-67	-57	-35	-16	2	4	4	-14	-33
-61	-104	-140	-159	-154	-131	-96	-71	-79	-80	-67	-80	-97	-109	-88	-46	-10	-2	-9	-6
-2	5	36	66	67	49	42	53	73	90	96	91	91	110	131	151	170	165	136	124
113	95	59	37	36	56	78	97	106	89	62	12	-48	-84	-92	-92	-94	-91	-80	-65
-34	-21	-29	-53	-90	-94	-61	-43	-36	-44	-67	-71	-65	-91	-125	-157	-175	-165	-136	-108
-102	-115	-126	-124	-126	-131	-118	-106	-105	-105	-112	-119	-115	-102	-91	-65	-36	-23	-27	-28
-15	0	12	13	2	11	38	65	79	64	29	10	28	49	61	74	78	73	93	109
106	103	98	93	97	119	139	151	145	126	111	93	71	50	30	16	8	2	-8	-6
-4	-14	-45	-72	-61	-24	-8	6	25	18	-3	-20	-27	-4	16	17	15	4	-19	-39
-58	-62	-42	-20	2	16	27	31	25	40	61	64	59	43	14	-13	-31	-37	-29	-9
18	59	101	133	135	124	101	81	70	75	84	91	88	89	84	60	60	71	65	48
34	33	31	11	-15	-37	-49	-51	-57	-67	-71	-80	-91	-87	-71	-73	-85	-94	-86	-70
-58	-44	-34	-22	-14	-16	-15	-23	-41	-33	-11	-8	-27	-36	-35	-27	-18	-5	-2	-10
-20	-32	-49	-58	-56	-46	-25	-5	10	16	21	30	33	22	10	9	18	32	41	34
14	25	45	54	58	57	55	78	114	109										

IIG107 71.019.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 475 CALTECH ATHENAEUM, PASADENA, CAL. COMP DOWN 34 08 20N,118 07 17W
INSTR PERIOD = 0.0378 SEC DAMPING = 0.491 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = -92.9 CM/SEC/SEC AT 8.28 SEC VELO = 6.6 CM/SEC AT 11.68 SEC DISP = 2.7 CM AT 8.32 SEC

INITIAL VELO = -0.06329 CM/SEC INITIAL DISP = -0.25186 CM

1430 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

-175	-3	36	-10	-27	16	119	70	45	140	138	37	-74	-93	32	17	59	50	-91	-118
13	124	0	-106	-16	-32	-177	-196	-6	65	85	65	33	46	16	15	73	61	121	77
-52	-52	20	91	103	-26	-53	-24	29	-67	-220	-118	22	39	25	-32	-35	-76	-52	117
-38	-190	-88	21	74	73	51	-36	-39	13	99	260	100	-45	-22	-82	-42	-53	-44	-13
-127	-150	38	143	55	-57	50	-7	-47	5	67	86	-19	-93	-62	-48	-30	51	118	59
-28	-66	-46	-12	37	76	-34	-259	-242	-60	69	115	171	117	-130	-249	-98	-49	-74	133
259	133	26	23	148	151	53	18	-61	-90	-46	100	29	-181	-64	203	331	139	-68	-132
-259	-126	77	-63	-149	-167	-155	-194	-161	63	239	144	-144	41	259	145	60	-56	-150	29
206	214	-201	-395	-125	159	41	-110	-174	-122	-95	-92	22	139	7	-50	139	183	7	8
105	225	98	53	11	-53	-2	148	187	14	-219	-170	11	96	-186	-285	-21	36	-196	-226
-162	-288	-244	60	52	-120	-20	57	118	291	230	-126	-75	258	297	118	6	52	150	268
95	-223	-220	-174	4	91	-226	-245	25	26	-7	-52	-22	35	83	15	-96	-65	229	418
204	6	-29	-140	132	291	11	-198	-216	-161	81	29	-191	-167	37	-39	-179	-292	-302	-284
-179	233	489	282	228	99	47	243	63	-68	149	202	78	99	124	16	19	-124	-2	186
64	-340	-225	176	68	-206	-161	74	-93	-46	207	140	-123	-203	-181	45	169	-75	-232	-232
-188	-126	-112	177	197	186	424	240	-188	65	363	198	-71	-270	-196	-340	-255	35	88	-136
-53	89	130	-16	-104	232	447	400	409	144	-184	-359	-192	14	57	-93	-211	-147	164	299
160	88	106	96	-64	86	172	214	-47	-273	-134	-63	-271	-408	-478	-319	13	271	226	90
102	548	662	203	-306	-404	-357	-238	-51	274	90	-344	-151	310	187	62	53	-43	-141	65
50	-50	-257	-185	-93	36	53	203	458	504	281	204	97	26	69	6	-125	-96	-202	-308
-213	-105	124	341	203	87	221	245	233	344	171	-112	-294	-526	-929	-860	-317	-56	-199	-358
-447	-326	-215	116	389	385	358	103	90	-79	-166	124	118	85	-135	-216	-61	-186	-388	-280
-112	14	27	106	200	102	-141	28	165	-105	-92	151	99	-56	126	143	-243	-255	-159	-264
-303	-295	-53	265	70	-70	11	-30	-35	-76	-56	95	215	208	80	-69	-52	203	188	-7
-60	-15	-61	-80	-139	-118	-209	-253	-63	112	1	-15	65	129	259	179	274	399	118	-116
-136	-210	-228	-193	-2	250	145	99	90	218	289	263	137	37	126	148	34	78	154	140
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72	175	178	165	208	231	249	251	151	20	25	69	26	-16	-43	-57	7	31	-45	-2
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79	86	95	70	61	60	29	29	56	53	18	-10	12	72	84	49	45	48	32	1
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67	57	48	27	6	0	20	42	37	28	25	19	0	-11	-17	-8	6	15	26	36
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16	23	19	1	5	19	25	15	43	30										

IIG108 71.022.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 264 CALTECH MILLIKAN LIBRARY, BASEMENT, PASADENA, CAL. COMP N00E 34 08 12N,118 07 30W
INSTR PERIOD = 0.0510 SEC DAMPING = 0.655 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = -198.0 CM/SEC/SEC AT 7.12 SEC VELO = -9.8 CM/SEC AT 7.20 SEC DISP = 2.7 CM AT 10.38 SEC

INITIAL VELO = -0.76379 CM/SEC INITIAL DISP = 0.00216 CM

4950 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

-14	14	43	53	28	-11	-30	-26	-7	7	-4	-6	15	46	58	32	4	-35	-74	-82
-62	10	91	95	45	5	-16	-21	-25	-35	-40	-33	-19	-5	31	76	90	108	111	36
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88	54	6	-28	-48	-63	-49	8	52	63	31	-23	-6	42	36	26	26	2	-16	1
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-23	-4	-10	-39	-4	96	108	-6	-104	-126	-72	-25	11	40	54	45	36	10	-21	8
58	73	61	49	57	49	29	23	50	79	72	24	-3	0	-7	-19	-37	-84	-66	23
31	-17	-31	-8	12	21	19	11	-10	-25	-2	33	37	31	35	25	-9	-23	-18	-26
-41	-54	-57	-38	-20	-44	-74	-61	-62	-83	-37	12	-34	-31	57	103	99	76	55	36
6	-35	-22	18	-23	-75	-48	30	90	97	47	-27	-59	-95	-192	-171	-49	-7	7	-6
-77	-153	-188	-186	-185	-150	-68	-15	-7	41	164	296	396	414	334	224	95	-31	-102	-187
-327	-308	-92	148	374	530	649	741	649	258	-339	-782	-970	-1071	-1061	-858	-585	-337	-32	322
570	780	907	825	572	163	-212	-282	-237	-262	-267	-201	-40	81	-8	-142	-254	-324	-310	-243
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123	-166	-414	-541	-307	143	322	147	-2	10	74	159	339	544	761	918	677	-8	-688	-1161
-1292	-1087	-561	8	434	670	731	658	589	653	751	697	268	-503	-1290	-1846	-1980	-1683	-1181	-586
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-93	-144	-130	-140	-79	187	423	236	-250	-693	-1082	-1487	-1692	-1337	-598	73	516	626	395	76
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-7	81	137	172	110	109	201	279	312	298	234	172	172	296	381	244	-29	-256	-322	-292
-217	-105	42	236	334	375	442	424	186	-161	-361	-355	-281	-278	-254	-159	-186	-329	-541	-794
-892	-758	-576	-459	-263	-40	84	93	96	105	68	-66	-214	-330	-385	-208	163	508	757	841
735	534	373	235	141	128	142	89	-17	-129	-244	-333	-363	-311	-140	62	204	198	83	-34
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-449	-470	-442	-407	-362	-300	-235	-127	11	130	205	228	203	144	70	19	16	28	45	64

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IIG108 71.022.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 264 CALTECH MILLIKAN LIBRARY, BASEMENT, PASADENA, CAL. COMP N90E 34 08 12N,118 07 30W
INSTR PERIOD = 0.0510 SEC DAMPING = 0.621 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = -181.6 CM/SEC/SEC AT 7.24 SEC VELO = -16.4 CM/SEC AT 9.98 SEC DISP = -6.9 CM AT 10.62 SEC

INITIAL VELO = 1.35427 CM/SEC INITIAL DISP = -0.10666 CM

4950 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

17	42	19	-29	-59	-48	-25	-15	-26	-31	-7	19	32	31	13	-7	-12	-24	-34	-20
16	38	8	-26	-33	-46	-55	-17	21	7	-9	4	25	21	10	-1	1	-1	-25	-37
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-77	-64	-40	-40	0	75	70	-16	-61	-46	-34	-22	-1	6	-34	-62	-24	35	65	52
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-232	90	380	574	621	513	360	202	106	183	338	473	496	328	111	-126	-378	-552	-599	-559
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IIG108 71.022.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 264 CALTECH MILLIKAN LIBRARY, BASEMENT, PASADENA, CAL. COMP DOWN 34 08 12N,118 07 30W
INSTR PERIOD = 0.0530 SEC DAMPING = 0.580 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = -91.2 CM/SEC/SEC AT 7.52 SEC VELO = 9.0 CM/SEC AT 7.46 SEC DISP = 2.4 CM AT 7.58 SEC

INITIAL VELO = -0.54605 CM/SEC INITIAL DISP = 0.01814 CM

4949 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

213	175	126	55	-48	-100	-2	42	-8	61	88	59	-15	36	40	-14	43	-127	-304	-144
-48	-63	61	242	187	46	-41	-129	-213	-195	-125	-47	31	90	137	180	96	-29	5	81
28	24	42	-46	-150	-137	8	40	-2	58	83	46	-54	-111	-39	-27	-109	-43	58	110
144	123	52	-35	-15	35	-72	-83	24	-52	-96	-49	9	6	-96	-46	76	-82	-91	85
181	147	102	-60	-229	-214	-70	94	176	151	181	198	143	64	-28	-125	-105	-10	72	46
-53	57	255	250	66	75	88	-71	-138	-202	-263	-242	-240	-74	146	25	-69	101	78	-15
133	248	46	-137	-44	-23	-121	-7	93	-60	-40	80	-102	-224	-123	-115	-80	-19	-109	-46
51	81	142	149	122	87	48	78	161	144	39	51	91	-52	-188	-34	110	-85	-82	110
55	-24	23	-15	-91	-192	-406	-443	-213	-201	-175	156	248	-17	120	381	233	51	52	56
53	-23	-74	9	57	-14	-16	116	50	-145	21	-83	-280	-28	107	-94	-35	70	-162	-191
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181	62	117	90	-85	-286	-248	-267	-453	-258	104	261	398	424	211	14	-54	-60	-68	-31
92	229	473	657	501	265	46	-155	-304	-390	-416	-473	-484	-267	-147	-147	7	145	93	6
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-889	-703	-271	-51	-99	-29	37	-92	-22	338	734	730	475	274	30	173	432	246	-311	-777
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-20	-13	-7	-7	-3	4	4	5	1	-4	-7	-5	0	2	2	-3	-9	-7	0	1

-8	-13	-10	-9	-7	-2	-1	-6	-10	-7	-1	-5	-15	-12	-4	-2	-1	-1	-6	-5
-3	-2	-3	-6	-4	4	10	12	7	8	10	7	3	7	11	7	1	3	9	13
11	4	1	0	2	6	7	10	12	12	10	8	4	5	4	5	3	3	7	10
12	8	0	-7	-11	-6	-1	2	1	-1	-1	-1	-1	-3	-6	-7	-7	-4	0	5
11	12	6	0	5	10	9	9	10	8	7	4	4	3	2	0	-1	-3	-6	-9
-11	-13	-12	-4	3	-4	-7	0	0	-6	-6	-2	-3	-4	-4	-4	-6	-8	-8	-11
-13	-11	-7	-6	-11	-14	-13	-13	-14	-15	-15	-17	-16	-14	-11	-10	-14	-15	-9	-8
-7	-7	-7	-7	-8	-6	-1	-12	-23											

IIG109 71.023.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 265 CALTECH MILLIKAN LIBRARY, 10TH FLOOR, PASADENA, CAL. COMP NOOE 34 08 12N,118 07 30W
INSTR PERIOD = 0.0470 SEC DAMPING = 0.612 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = -305.5 CM/SEC/SEC AT 7.92 SEC VELO = -24.9 CM/SEC AT 8.08 SEC DISP = 3.8 CM AT 13.86 SEC

INITIAL VELO = -0.55139 CM/SEC INITIAL DISP = 0.13125 CM

4950 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

-71	-93	-41	-22	-70	-49	51	128	148	106	27	-20	13	80	81	19	-31	3	107	132
72	-15	-147	-235	-220	-100	13	15	-31	-86	-96	19	78	36	-3	-3	13	26	36	68
84	110	207	238	143	22	-7	12	8	-22	-81	-136	-156	-106	-58	-40	-72	-149	-213	-238
-161	-46	50	123	160	138	101	88	132	200	185	111	63	98	102	-24	-121	-125	-34	9
-29	-126	-206	-157	-92	-96	-103	-37	21	40	56	61	51	35	92	141	110	94	110	105
126	92	0	-54	-70	-119	-156	-126	-48	17	9	-102	-184	-235	-241	-133	53	135	82	54
83	163	231	207	164	203	275	253	186	102	10	-1	81	57	-62	-124	-122	-162	-205	-215
-222	-232	-197	-104	-73	-78	-39	6	58	149	218	170	103	150	200	198	166	134	98	86
93	48	-50	-142	-196	-184	-182	-222	-297	-358	-344	-287	-235	-180	-151	-149	-117	34	223	337
392	432	420	410	444	418	329	161	5	-90	-112	-135	-148	-212	-314	-333	-363	-439	-478	-463
-401	-267	-75	-7	-56	-93	-82	-39	47	78	28	-7	-23	69	298	498	545	630	695	670
590	472	313	49	-263	-619	-753	-540	-232	-91	76	594	1032	831	256	-326	-678	-810	-932	-1202
-1536	-1741	-1588	-1111	-505	190	777	1077	1211	1159	1081	1195	1347	1254	901	546	453	596	708	420
-292	-1079	-1530	-1610	-1452	-1264	-1166	-1216	-1253	-955	-301	508	1034	1094	934	922	1122	1300	1153	607
-78	-475	-196	530	888	643	204	-166	-391	-598	-1002	-1573	-1993	-1943	-1403	-383	876	1500	1148	398
-157	-229	213	434	145	-231	-107	271	391	137	-170	-277	-144	139	288	64	-441	-860	-965	-534
355	1083	1164	885	661	591	609	504	307	135	101	164	15	-312	-692	-862	-587	-29	527	884
909	711	310	-289	-930	-1385	-1352	-761	-203	-123	-290	-348	-58	692	1588	2075	1922	1346	534	-482
-1411	-1865	-1809	-1660	-1662	-1755	-1687	-1285	-814	-620	-647	-420	295	1239	1990	2202	1943	1842	2092	2513
2589	2141	1241	234	-136	109	239	-123	-615	-883	-561	-12	-45	-888	-2052	-2889	-3055	-2332	-1342	-1245
-1825	-2223	-1881	-922	10	514	910	1491	2300	2784	2675	2411	2021	1407	940	901	1049	962	779	636
538	472	305	-83	-631	-1205	-1548	-1562	-1478	-1291	-989	-637	-553	-759	-1183	-1674	-2079	-2022	-1379	-647
-165	139	326	245	90	-21	92	523	1063	1264	1074	811	596	658	914	1140	1189	1096	925	707
444	178	64	154	261	174	-92	-455	-800	-998	-1097	-1038	-728	-92	776	1279	1078	566	-6	-446
-602	-542	-497	-656	-931	-1127	-1102	-892	-712	-658	-601	-354	-5	346	664	874	986	1261	1713	2072
1943	1484	845	330	218	394	349	123	-241	-569	-621	-417	-291	-406	-851	-1334	-1511	-1223	-636	-225
-165	-437	-786	-981	-959	-785	-604	-604	-642	-562	-333	-58	192	304	308	324	359	323	224	145
195	398	759	1178	1407	1330	1086	859	843	1046	1182	1055	773	418	4	-440	-832	-1120	-1287	-1267
-1146	-1082	-1127	-1220	-1372	-1460	-1345	-995	-492	0	271	353	464	663	915	1179	1406	1586	1729	1740
1542	1240	942	638	273	-62	-284	-394	-450	-517	-596	-709	-832	-858	-761	-628	-596	-722	-883	-929
-815	-611	-373	-145	67	215	264	192	87	72	290	728	1170	1451	1514	1311	970	669	456	289
126	-60	-266	-503	-793	-1122	-1381	-1518	-1516	-1377	-1132	-871	-642	-445	-226	-7	143	280	418	588
804	1034	1098	1010	885	760	629	497	450	490	578	619	627	608	514	321	57	-230	-512	-702
-757	-707	-683	-758	-897	-977	-855	-548	-265	-100	34	224	446	688	961	1118	1195	1287	1385	1385
1246	952	579	197	-160	-505	-893	-1238	-1447	-1493	-1397	-1242	-1136	-1069	-992	-888	-744	-570	-349	-70
212	500	789	1049	1208	1185	932	554	291	257	427	569	446	121	-327	-750	-1068	-1220	-1253	-1248
-1234	-1278	-1360	-1362	-1190	-872	-449	-24	335	571	680	718	705	694	690	737	833	878	795	569
262	18	-57	9	149	298	377	303	104	-146	-323	-399	-371	-256	-125	-59	-38	-18	30	100
185	236	225	192	150	137	189	290	374	459	559	667	754	788	744	630	481	360	283	205
82	-115	-409	-723	-967	-1157	-1334	-1468	-1573	-1655	-1672	-1575	-1288	-836	-370	-13	246	462	723	1006

1295	1490	1553	1543	1526	1490	1372	1149	842	503	200	-31	-243	-443	-634	-826	-1025	-1181	-1237	-1229
-1201	-1152	-1063	-913	-686	-417	-138	173	474	700	831	875	883	873	893	905	886	841	766	657
509	321	81	-170	-396	-595	-739	-803	-819	-849	-904	-938	-919	-844	-709	-534	-374	-229	-27	201
416	575	689	748	761	804	872	899	895	866	824	753	638	478	264	10	-202	-295	-284	-290
-403	-596	-844	-1050	-1142	-1114	-1030	-1011	-1044	-1030	-914	-699	-449	-208	23	236	416	579	719	841
946	1029	1074	1068	1007	936	868	797	645	420	194	-2	-152	-281	-444	-663	-906	-1096	-1192	-1173
-1090	-1019	-1008	-973	-843	-583	-246	71	293	371	427	590	845	1127	1359	1441	1351	1247	1150	1050
927	774	563	335	94	-150	-424	-746	-1096	-1364	-1491	-1483	-1447	-1448	-1463	-1445	-1335	-1088	-740	-380
-64	204	435	649	850	1035	1143	1191	1197	1185	1161	1112	1016	862	668	467	313	178	-10	-235
-484	-719	-858	-880	-838	-852	-938	-998	-948	-790	-545	-308	-150	-36	125	377	677	941	1117	1179
1176	1176	1169	1113	957	677	351	58	-181	-356	-504	-675	-909	-1147	-1289	-1298	-1236	-1183	-1182	-1170
-1063	-884	-636	-367	-134	71	279	503	756	971	1104	1168	1200	1236	1275	1269	1162	956	716	492
298	120	-64	-259	-478	-691	-879	-1042	-1162	-1222	-1226	-1181	-1072	-902	-682	-449	-222	-5	205	421
628	803	922	984	1024	1067	1107	1114	1072	957	783	589	410	227	34	-198	-401	-553	-666	-730
-777	-827	-882	-905	-857	-686	-495	-342	-250	-164	-52	85	250	385	464	471	417	369	323	285
197	45	-113	-219	-275	-324	-399	-487	-539	-523	-462	-383	-281	-175	-62	72	184	244	312	426
512	559	554	509	443	423	460	480	438	351	242	174	129	80	21	-37	-112	-196	-293	-391
-455	-486	-472	-415	-343	-292	-281	-286	-294	-294	-260	-163	-32	95	158	151	151	164	202	253
329	385	395	350	266	154	18	-106	-154	-116	-43	8	-33	-141	-236	-257	-161	3	144	151
78	28	-2	-1	-14	-38	-48	-39	5	57	41	-35	-134	-216	-265	-289	-291	-300	-313	-319
-304	-250	-196	-172	-158	-131	-83	-33	19	74	127	160	172	169	150	142	199	289	355	343
286	228	181	146	110	67	39	28	40	38	-20	-93	-143	-157	-146	-134	-124	-116	-113	-99
-55	14	65	93	105	115	99	50	-13	-57	-80	-91	-126	-197	-287	-356	-370	-320	-241	-211
-226	-245	-241	-162	-29	117	239	292	301	288	273	262	278	310	344	364	344	303	275	249
207	155	119	97	81	68	28	-22	-52	-64	-49	-26	-7	-14	-62	-97	-121	-143	-143	-134
-142	-203	-268	-294	-258	-161	-93	-69	-76	-108	-117	-81	-8	51	104	141	168	192	209	227
248	269	287	295	286	239	172	96	29	-31	-77	-107	-129	-149	-165	-187	-232	-278	-304	-317
-313	-296	-266	-193	-118	-63	-3	66	133	190	231	256	274	281	274	235	146	54	8	3
18	32	29	-4	-63	-134	-182	-192	-166	-111	-49	-8	-6	-34	-58	-72	-59	-12	47	89
115	113	93	65	54	67	96	118	116	94	69	32	5	1	-6	-20	-40	-71	-117	-158
-174	-176	-172	-176	-180	-177	-170	-146	-110	-95	-76	-70	-59	-30	13	45	68	84	97	110
127	141	154	167	179	174	147	117	95	71	48	29	22	18	4	-22	-64	-128	-189	-210
-175	-124	-81	-43	14	68	100	114	131	163	204	248	260	233	194	159	139	106	49	-31
-107	-157	-202	-226	-242	-252	-257	-250	-237	-211	-167	-127	-100	-81	-61	-28	16	66	120	173
216	225	220	229	270	308	327	312	259	193	139	75	8	-65	-139	-194	-211	-211	-221	-248
-281	-310	-311	-265	-205	-147	-103	-81	-62	-26	35	101	161	195	202	205	207	200	182	130
70	5	-46	-51	-48	-59	-98	-152	-183	-184	-160	-127	-93	-56	-21	-5	-2	17	47	78
114	141	145	143	143	142	130	85	25	-20	-32	-34	-37	-46	-68	-112	-165	-188	-161	-101
-30	14	-10	-60	-84	-61	-7	37	41	35	34	64	116	169	188	192	191	186	176	151
111	66	12	-33	-55	-70	-81	-105	-142	-177	-199	-193	-169	-143	-131	-143	-156	-167	-162	-132
-69	-7	18	12	-15	-45	-65	-67	-46	-24	-21	-37	-54	-52	-25	0	11	30	41	55
76	70	40	12	16	57	94	106	82	53	38	53	85	110	120	113	93	70	53	38
35	31	-11	-55	-66	-45	-25	-37	-44	-57	-64	-54	-32	-17	-16	-15	13	50	92	107
99	96	95	108	132	115	54	-13	-68	-101	-120	-139	-138	-67	19	50	-12	-112	-204	-245
-212	-150	-72	7	72	91	63	32	51	149	287	412	450	378	246	141	114	138	134	80
9	-86	-216	-300	-279	-200	-107	-43	-45	-105	-147	-119	-50	-20	-14	-4	8	31	40	-25
-138	-224	-208	-93	61	142	103	31	-18	-21	-15	-26	-43	-41	-21	2	5	5	14	13
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96	78	119	165	120	33	-58	-113	-117	-98	-108	-165	-211	-204	-155	-116	-104	-108	-105	-93
-60	-19	25	83	141	161	161	186	239	302	328	281	236	207	205	166	86	-10	-85	-128

-152	-172	-178	-170	-155	-148	-148	-158	-155	-131	-78	-46	-56	-53	-28	17	67	116	120	110
104	119	150	170	161	145	139	144	149	111	34	-25	-73	-96	-96	-107	-116	-139	-172	-218
-258	-274	-255	-229	-201	-186	-149	-91	-39	-9	0	51	141	220	262	260	248	241	255	293
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61	111	170	240	323	389	414	390	339	299	300	293	244	185	125	32	-43	-122	-184	-258
-308	-353	-383	-389	-397	-395	-387	-371	-326	-246	-139	-25	48	93	112	131	169	229	291	353
359	301	223	156	102	83	52	-22	-96	-171	-224	-234	-227	-227	-226	-228	-226	-199	-154	-99
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-50	-76	-114	-141	-158	-187	-208	-206	-202	-187	-166	-140	-111	-73	-23	34	77	117	165	204
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-39	-20	-8	1	11	10	13	26	40	24	7	-1	-4	-3	-14	-39	-52	-44	-24	-9
-3	-6	-7	-2	8	22	31	42	53	58	61	62	65	65	57	44	30	5	-32	-59
-62	-59	-38	-31	-39	-54	-61	-59	-54	-54	-48	-32	-30	-22	1	31	48	45	21	-6
-11	3	16	5	-7	-27	-53	-56	-64	-87	-111	-111	-100	-90	-68	-45	-37	-31	-19	-10
8	34	50	48	37	18	15	29	54	61	62	52	38	32	26	8	-12	-37	-37	-30
-22	-25	-24	-28	-29	-19	-6	1	9	16	29	58	104	140	167	162	139	100	64	32
13	12	-13	-62	-92	-121	-155	-203	-222	-213	-204	-179	-143	-124	-106	-86	-46	14	66	115
130	134	145	157	163	170	169	149	114	99	94	64	27	-2	-32	-55	-62	-73	-108	-149
-179	-183	-165	-142	-115	-94	-89	-75	-50	-29	4	43	67	78	98	118	129	133	136	128
110	86	63	35	6	-22	-50	-60	-76	-100	-124	-141	-137	-119	-99	-85	-75	-61	-49	-32
-4	32	64	84	92	101	109	105	107	105	99	97	86	72	61	45	24	2	-17	-22
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98	100	103	98	79	54	28	3	-17	-31	-45	-61	-72	-77	-83	-70	-52	-42	-36	-41
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5	-11	-26	-42	-55	-65	-65	-66	-74	-96	-101	-94	-90	-78	-50	-39	-32	-21	-12	-12
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79	48	7	-7	-12	-6	-13	-44	-72	-88	-92	-85	-76	-60	-42	-23	3	18	30	40
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-106	-105	-92	-75	-63	-47	-27	-22	-14	0	16	35	46	45	23	24	41	46	54	46
30	19	10	7	2	-1	0	5	-16	-16	-13	-12	-11	-16	-8	4	3	8	11	13
20	55	72	72	85	84	85	89	94	94	88	74	46	18	-4	-29	-52	-56	-60	-73
-79	-79	-83	-86	-88	-84	-75	-59	-45	-25	-17	-14	-6	18	42	61	66	52	48	45
44	44	31	10	-18	-36	-52	-54	-56	-62	-63	-63	-59	-46	-27	-14	3	20	34	50
67	67	64	73	83	86	77	57	39	39	38	39	41	33	13	-1	-11	-16	-18	-31
-40	-47	-50	-44	-38	-36	-30	-20	-3	11	19	17	16	9	10	17	19	17	12	-2
-11	-11	-8	-7	-8	-20	-30	-36	-43	-48	-35	-34	-24	-16	-10	-5	3	16	29	39
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IIG109 71.023.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 265 CALTECH MILLIKAN LIBRARY, 10TH FLOOR, PASADENA, CAL. COMP N90E 34 08 12N,118 07 30W
INSTR PERIOD = 0.0480 SEC DAMPING = 0.540 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = -340.8 CM/SEC/SEC AT 10.98 SEC VELO = -49.9 CM/SEC AT 10.22 SEC DISP = -11.7 CM AT 10.50 SEC

INITIAL VELO = 1.31998 CM/SEC INITIAL DISP = -0.50659 CM

4950 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

-12	5	-25	-11	41	26	28	107	123	40	-35	-52	-52	-67	-55	-14	-7	-6	5	19
-10	-49	-72	-102	-67	-10	18	48	78	33	-42	-83	-103	-63	43	84	40	73	103	29
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17	74	65	78	74	-5	-78	-22	79	131	153	147	95	44	-6	-59	-103	-101	-6	80
54	32	21	-79	-125	-87	-52	-52	-23	-9	-46	-125	-183	-131	-52	-58	-44	5	10	-3
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-6	-172	-172	-62	-60	-125	-160	-197	-241	-179	-43	16	-34	-43	-40	-94	-162	-52	136	85
-19	78	124	51	93	155	67	45	173	231	160	73	79	74	3	-77	-54	-23	-89	-159
-71	-6	-146	-266	-202	-179	-227	-131	4	77	115	139	71	36	36	-48	-33	66	26	81
240	227	144	215	209	95	48	23	-92	-177	-166	-52	-8	-6	-83	-177	-171	-172	-143	-56
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129	66	39	-149	-325	-394	-406	-274	-100	49	201	399	559	640	611	442	237	95	-32	-198
-389	-577	-750	-927	-1122	-1298	-1373	-1219	-805	-356	31	329	254	-36	-223	-155	166	668	1397	2035
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-534	-562	-381	46	384	255	-174	-507	-657	-850	-1290	-1570	-1612	-1402	-1287	-1579	-2093	-2362	-2289	-2001
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2427	3003	3342	3322	3032	2681	2244	1919	1772	1722	1679	1600	1420	1159	801	399	35	-213	-337	-317
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2014	1763	1505	1313	1262	1280	1230	1026	725	496	331	153	-87	-359	-618	-884	-1166	-1504	-1910	-2279
-2532	-2558	-2429	-2231	-2037	-1826	-1597	-1465	-1546	-1749	-1876	-1791	-1499	-1030	-547	-199	-26	104	225	288
333	446	703	1105	1580	1989	2159	2064	1932	1905	1869	1834	1873	1975	2042	1915	1603	1199	783	447
264	207	132	-53	-279	-465	-625	-908	-1329	-1796	-2195	-2410	-2440	-2346	-2127	-1869	-1638	-1517	-1590	-1812
-2037	-2091	-1960	-1656	-1263	-848	-472	-162	110	390	675	917	1121	1370	1708	2040	2311	2539	2682	2725
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IIG109 71.023.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 265 CALTECH MILLIKAN LIBRARY, 10TH FLOOR, PASADENA, CAL. COMP DOWN 34 08 12N,118 07 30W
INSTR PERIOD = 0.0480 SEC DAMPING = 0.616 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = -119.4 CM/SEC/SEC AT 7.56 SEC VELO = 7.7 CM/SEC AT 7.46 SEC DISP = 2.8 CM AT 7.58 SEC

INITIAL VELO = -0.61901 CM/SEC INITIAL DISP = -0.36199 CM

4949 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

81	514	296	-100	-108	-28	-44	31	98	13	-10	96	140	33	23	81	-23	-11	-108	-435
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149	115	94	73	-58	-115	19	-21	-128	7	91	-78	-251	-100	179	66	-156	-136	-129	-53
245	456	119	-293	-446	-238	63	136	38	72	203	334	299	84	-143	-190	-160	-58	76	194
32	-224	-2	426	505	5	-377	-197	106	-36	-435	-522	-276	-53	138	185	-42	-95	154	207
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292	495	108	-300	-455	-343	-201	-344	-400	-250	-74	37	332	348	43	112	350	182	-116	-201
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180	501	401	96	-190	-298	-480	-400	-190	-363	-262	257	767	920	575	84	-271	-409	-295	-56
235	357	171	29	242	514	526	90	-410	-613	-356	27	-90	-573	-498	151	669	338	-229	-411
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294	296	214	150	187	219	130	100	83	-38	-128	-59	-74	-296	-470	-487	-204	47	63	-125
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IIG110 71.032.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 267 JET PROPULSION LAB., BASEMENT, PASADENA, CAL. COMP S82E 34 12 01N,118 10 25W
INSTR PERIOD = 0.0460 SEC DAMPING = 0.572 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = 207.8 CM/SEC/SEC AT 5.10 SEC VELO = 13.9 CM/SEC AT 5.18 SEC DISP = -5.0 CM AT 7.68 SEC

INITIAL VELO = 0.60418 CM/SEC INITIAL DISP = 0.41310 CM

4879 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

-26	37	14	37	56	85	4	-58	-29	-33	-7	-2	-43	-59	-62	-21	-17	-7	30	15
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IIG110 71.032.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 267 JET PROPULSION LAB., BASEMENT, PASADENA, CAL. COMP S08W 34 12 01N,118 10 25W
INSTR PERIOD = 0.0470 SEC DAMPING = 0.601 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = 139.0 CM/SEC/SEC AT 5.16 SEC VELO = 9.2 CM/SEC AT 5.26 SEC DISP = -2.9 CM AT 6.92 SEC

INITIAL VELO = -0.19176 CM/SEC INITIAL DISP = 0.03018 CM

4882 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

47	7	-20	-99	-35	-11	-101	-80	-45	56	186	142	82	96	23	-60	-94	-160	-42	25
61	144	84	72	89	-11	-112	-129	-99	-43	15	7	31	47	34	-43	-18	-46	-139	-28
42	9	16	55	-9	-24	60	-38	17	69	-33	-116	-56	-13	-49	-55	59	152	112	8
-51	-68	-67	-90	-75	-24	-70	0	93	1	81	166	160	162	100	226	254	111	-23	-17
-15	-129	-170	-153	-146	-181	-40	126	73	-74	-28	68	57	-2	-291	-390	-390	-520	-357	-166
-88	-76	167	409	354	403	497	312	130	-335	-539	-331	125	255	148	447	975	878	427	32
-143	-317	-388	-281	-288	26	337	265	45	116	113	-88	81	-136	-259	-69	-526	-866	-604	-351
-218	376	804	581	296	144	65	-207	-395	-20	-199	-693	-95	247	146	195	7	-139	-189	-186
-41	-211	-230	-85	113	358	311	327	373	206	279	375	330	213	159	-156	-82	64	120	439
282	82	344	474	225	-42	112	-212	-654	-419	-335	-677	-722	-401	-308	-124	18	-345	-368	-268
-534	-720	-718	-590	-377	-211	-55	395	514	449	338	35	-114	-375	-637	-449	-250	-231	282	822
923	838	796	851	902	714	457	257	81	-14	-311	-521	-140	-360	-501	116	337	388	137	-486
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456	599	340	-148	-397	-693	-575	-660	-922	-615	-330	-122	339	384	238	28	49	242	-104	-264
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217	368	651	772	659	375	56	2	172	93	109	374	184	-17	110	21	-11	87	-113	-110
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112	22	230	167	11	168	208	-66	-200	-246	-487	-448	-364	-303	-142	68	181	245	562	797
727	455	-88	-384	-324	-473	-739	-439	-272	-255	52	105	36	174	194	83	32	84	225	282
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84	168	222	219	201	317	312	128	25	-157	-377	-482	-548	-491	-390	-195	55	233	251	219
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-3	0	-2	-6	-9	-12	-12	-8	1	7	10	12	13	7	1	-5	-9	-10	-6	0
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3	4	4	5	5	5	4	-1	-5	-6	-4	1	5	-1	-3	-2	-1	-2	-5	-8
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17	8	-5	-6	-5	-1	4	7	8	8	9	16	24	20	17	14	11	10	8	6
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0	-1	-2	-3	-4	-7	-12	-16	-19	-20	-13	-1	-4	-8	-8	-7	-6	-5	-6	-7
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18	29	39	39	26	14	2	-4	-1	2	5	6	2	-1	-4	-6	-3	0	2	3
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-4	-8	-14	-9	3	7	1	-5	-8	-4	0	0	-3	-5	-8	-11	-14	-16	-19	-18
-10	-6																		

IIG110 71.032.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 267 JET PROPULSION LAB., BASEMENT, PASADENA, CAL. COMP DOWN 34 12 01N,118 10 25W
INSTR PERIOD = 0.0460 SEC DAMPING = 0.612 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = -126.3 CM/SEC/SEC AT 5.06 SEC VELO = -5.9 CM/SEC AT 6.46 SEC DISP = 2.6 CM AT 8.90 SEC

INITIAL VELO = -0.28881 CM/SEC INITIAL DISP = 0.19672 CM

4880 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

11	-210	-137	-70	-50	-4	-28	-78	-11	117	62	99	251	82	-52	-27	-129	-8	109	52
-71	-131	-113	-180	-149	30	152	230	257	75	63	23	-106	-17	52	178	187	238	207	45
0	-39	-227	-327	-153	-365	-252	68	154	88	140	171	31	78	120	79	164	76	-108	30
-4	-223	-152	-287	-444	-218	-104	-22	120	93	162	264	229	251	112	50	-44	109	173	142
268	186	-32	-339	-368	-456	-439	-290	-136	-96	22	-162	-97	84	135	65	320	466	389	203
4	-311	-254	-5	133	238	136	-252	-247	-157	21	-36	-53	-28	-34	-39	239	149	125	286
348	-32	-337	-564	-427	39	-137	-159	215	367	108	-19	152	132	229	133	155	342	-62	-382
-260	-276	-83	118	287	339	55	-208	-348	-285	216	-30	-178	44	-31	-182	-103	260	393	49
332	444	77	-335	-564	-746	-693	-193	260	554	676	334	59	-53	-175	-439	-288	-130	-309	215
531	439	540	192	-148	-282	-505	-442	-511	-378	21	177	215	296	235	276	109	91	55	-454
-630	-570	-442	-166	16	349	342	717	598	734	1001	717	189	-330	-631	-349	-245	-435	-550	-330
-42	51	233	389	294	329	391	385	597	519	-90	-527	-824	-807	-273	-118	-323	-275	-109	-38
345	320	-238	-288	154	293	518	828	550	60	-389	-390	-719	-1263	-797	-517	-495	-54	454	398
219	564	1047	990	418	64	28	-228	-466	-702	-865	-848	-450	-37	320	427	382	403	436	531
501	46	-320	-733	-891	-717	-425	-520	-233	19	203	554	602	516	331	324	317	136	-19	-12
-16	-273	-255	-440	-499	-242	-19	-14	145	226	-96	-165	39	56	-158	-7	342	265	-58	-431
-629	-626	-264	12	251	498	418	509	581	341	63	-248	-327	-77	-15	12	357	391	264	299
-75	-393	-312	-262	-253	71	172	112	74	153	300	329	195	43	-137	-159	66	251	253	55
-31	-186	-168	-17	-119	-207	63	75	-103	-17	20	-70	-188	-102	20	207	281	298	314	273
82	-40	-39	-130	-92	-4	193	156	62	120	-23	-248	-415	-305	-229	-235	-58	-26	213	495
252	63	96	-15	-80	-26	0	99	27	50	310	252	188	261	281	220	82	64	2	-135
-318	-440	-466	-444	-337	-214	-151	8	198	247	186	75	182	182	183	138	160	128	-11	-127
-197	-347	-461	-481	-378	-193	32	-60	-202	-216	-306	-191	0	-33	-292	-410	-339	-96	48	82
330	198	6	46	-18	127	113	101	126	65	83	270	172	-127	-221	-252	-274	-170	3	28
50	-87	-132	-41	-9	83	185	161	74	62	130	54	-134	-160	-69	22	2	49	-18	30
34	112	11	-35	-124	-254	-254	-214	-192	101	354	390	456	311	68	-14	-117	-123	21	145
167	104	-4	-33	54	134	144	97	-73	-135	-124	55	127	110	43	69	13	31	14	-97
-152	-234	-181	79	351	323	306	150	32	126	157	180	172	47	-147	-170	-157	-125	-36	23
29	13	-149	-200	-64	29	38	66	-4	-155	-173	-246	-205	-51	-32	93	185	256	223	112
82	-94	-176	-108	-13	-45	-165	-264	-236	-129	-12	125	137	120	-2	-75	-78	-83	-46	-85
-147	-139	-122	-37	80	124	154	208	192	161	46	57	89	75	69	13	23	122	89	1
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4	102	137	32	17	-61	1	-73	-123	-24	-76	-52	-5	-55	-77	-68	-130	-81	83	252
337	305	235	116	-40	-32	61	69	40	-63	-68	-105	-57	-76	-55	-55	-11	-6	-13	-57
-73	-77	-62	-14	36	71	93	49	23	11	-29	-94	-47	43	70	19	-28	-117	-130	-143
-173	-128	-72	-66	-107	-112	-37	0	17	-48	-74	-40	-2	71	128	164	123	87	119	41
-39	-40	-14	-34	-23	-46	-123	-127	-126	-94	-70	-27	-70	-43	-13	-57	-91	-75	21	92
107	129	31	-25	-20	-35	11	51	-49	-84	-62	-67	24	54	67	19	-23	-4	-10	25
75	89	107	137	60	-16	-47	-80	5	78	40	-51	-118	-52	24	53	67	92	40	-52
-112	-111	-87	-68	-12	-16	-36	-4	5	-13	-9	-15	66	127	168	159	111	19	-86	-117

-90	38	74	58	79	-5	-86	-45	-10	-34	-46	-106	-100	-56	-11	-6	-50	-62	-30	51
91	71	-10	-33	-18	49	121	98	70	59	81	76	-49	-110	-80	-11	21	36	34	-11
-38	-87	-58	12	-10	6	79	61	5	-5	-7	-56	-49	2	-15	-79	-101	-28	37	82
102	75	53	52	19	-11	-56	-58	-43	-28	-29	-22	44	33	9	-32	-94	-89	-81	-33
88	108	89	90	153	154	74	20	-55	-120	-105	-52	-20	-4	-33	-53	-63	-47	-61	-15
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24	35	52	59	40	-23	-77	-99	-66	-66	-51	2	55	61	46	17	-62	-99	-57	-21
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71	80	51	12	11	5	4	-8	-4	14	-6	-8	10	34	44	40	34	35	24	-5
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2	-8	-13	-25	-29	-41	-5	27	46	61	52	40	24	-20	-73	-96	-51	-27	-41	-41
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3	-20	7	45	24	-11	-28	-19	18	12	1	-28	-32	-39	-32	5	5	8	26	9
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IIG111 71.031.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 268 JET PROPULSION LAB., 9TH FLOOR, PASADENA, CAL. COMP S82E 34 12 01N,118 10 25W
INSTR PERIOD = 0.0480 SEC DAMPING = 0.579 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = 374.8 CM/SEC/SEC AT 5.34 SEC VELO = 32.6 CM/SEC AT 5.46 SEC DISP = -9.6 CM AT 7.86 SEC

INITIAL VELO = 1.56112 CM/SEC INITIAL DISP = 0.66505 CM

4950 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

-25	-60	-99	-114	-78	-19	-47	-105	-117	-96	-64	-36	-19	12	27	17	-13	-62	-61	-48
-39	-22	-16	-18	-5	-10	-1	18	53	58	35	23	57	70	113	125	95	24	-47	-86
-64	-28	-27	-61	-73	-76	-106	-109	-86	-50	4	-12	-58	-84	-120	-150	-139	-110	-86	-42
35	41	16	-30	-111	-147	-113	-49	45	71	86	112	123	96	62	30	20	40	100	165
220	236	223	154	78	2	-28	-18	29	53	54	74	101	98	93	60	25	0	-6	-4
-30	-109	-183	-198	-207	-252	-371	-574	-691	-664	-523	-275	-24	163	290	383	339	198	16	-58
-24	29	104	222	266	386	415	277	80	-141	-363	-443	-367	-166	92	357	560	741	828	760
657	605	547	457	320	159	-14	-205	-411	-614	-844	-1006	-1008	-905	-662	-312	21	332	516	512
363	92	-205	-451	-579	-532	-404	-267	-197	-190	-191	-249	-331	-368	-267	-87	243	650	917	1059
1105	989	689	248	-236	-611	-870	-1015	-922	-667	-345	39	442	741	913	939	855	715	603	570
535	458	337	283	200	67	3	37	180	417	694	926	1019	975	824	539	259	-49	-397	-752
-1026	-1077	-960	-800	-634	-398	-132	116	332	457	503	412	142	-263	-700	-1101	-1481	-1922	-2314	-2575
-2610	-2352	-1893	-1383	-812	-130	590	1330	1885	2183	2231	1998	1545	925	239	-482	-1043	-1429	-1578	-1478
-1157	-637	88	1160	2380	3263	3727	3748	3435	2769	1984	1222	522	-72	-598	-1023	-1410	-1719	-1862	-1834
-1619	-1254	-894	-551	-152	311	770	1062	1090	991	712	186	-474	-1291	-2132	-2905	-3413	-3546	-3355	-2713
-1899	-1155	-468	155	662	1020	1320	1409	1338	1181	944	690	448	331	307	255	109	-23	-122	-142
-118	-97	-57	119	441	886	1373	1831	2022	1865	1443	904	425	36	-278	-475	-575	-618	-620	-559
-535	-622	-742	-795	-730	-646	-558	-469	-372	-244	-47	142	275	298	265	186	20	-176	-417	-711
-1058	-1398	-1575	-1510	-1216	-844	-548	-310	-121	22	107	171	234	290	368	483	610	692	648	500
276	46	-145	-274	-323	-258	-92	173	504	946	1463	1958	2314	2489	2452	2200	1785	1344	972	718
561	377	181	-13	-213	-412	-590	-733	-831	-847	-748	-570	-333	-119	11	90	97	53	-90	-305
-540	-798	-1058	-1285	-1476	-1617	-1673	-1650	-1560	-1386	-1135	-845	-576	-302	-39	181	340	484	625	723
787	816	818	794	712	580	464	350	221	165	208	347	566	785	946	1060	1135	1190	1123	983
800	594	391	214	85	-18	-110	-179	-230	-286	-343	-369	-359	-346	-315	-251	-151	-21	106	162
172	145	28	-127	-301	-480	-682	-888	-1081	-1206	-1213	-1127	-1018	-910	-851	-798	-751	-705	-651	-564
-448	-289	-115	6	32	-31	-108	-182	-254	-284	-255	-190	-74	54	144	250	392	502	608	720
845	997	1124	1199	1273	1308	1318	1282	1194	1099	1013	916	811	678	533	381	254	173	112	41
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-1121	-1008	-895	-779	-642	-516	-416	-372	-346	-313	-288	-235	-143	1	177	346	517	666	767	811
807	789	788	826	913	1019	1095	1146	1179	1173	1120	991	799	619	493	453	471	534	588	580
498	375	223	81	-59	-179	-288	-377	-444	-505	-585	-682	-779	-856	-912	-947	-936	-915	-913	-913
-917	-929	-960	-984	-975	-926	-859	-788	-735	-692	-656	-614	-570	-533	-490	-421	-335	-245	-131	-10
127	294	462	579	635	683	757	863	978	1083	1162	1216	1274	1311	1309	1252	1161	1082	1023	982
950	904	839	768	718	667	619	548	434	298	148	19	-68	-168	-274	-398	-535	-671	-797	-917
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-280	-176	-72	9	78	150	220	287	361	443	523	610	717	845	959	1024	1067	1089	1071	997
872	735	587	473	394	327	257	201	164	141	116	84	46	14	-15	-59	-133	-216	-279	-335
-391	-465	-560	-659	-747	-819	-867	-911	-950	-980	-992	-962	-902	-813	-710	-616	-529	-446	-363	-291
-245	-203	-149	-83	-5	63	106	145	185	217	240	247	252	282	347	439	550	664	765	861
947	1007	1039	1040	1001	941	874	769	649	555	467	399	348	308	262	206	154	86	9	-59

-137	-212	-275	-322	-382	-453	-534	-627	-721	-819	-924	-1021	-1080	-1090	-1074	-1050	-1002	-927	-811	-667
-530	-410	-312	-230	-151	-70	8	72	128	179	229	283	316	322	308	311	368	440	508	575
645	717	777	820	849	865	880	883	846	775	677	573	482	402	324	246	173	115	86	70
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23	22	19	17	15	13	11	10	13	19	22	18	10	4	4	5	7	7	5	2
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3	-6	-12	-11	-12	-14	-17	-21	-27	-32										

IIG111 71.031.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 268 JET PROPULSION LAB., 9TH FLOOR, PASADENA, CAL. COMP S08W 34 12 01N,118 10 25W
INSTR PERIOD = 0.0470 SEC DAMPING = 0.581 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = -205.6 CM/SEC/SEC AT 5.98 SEC VELO = -29.5 CM/SEC AT 4.60 SEC DISP = 6.6 CM AT 5.68 SEC

INITIAL VELO = 0.48475 CM/SEC INITIAL DISP = -0.00958 CM

4948 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

-65	-84	36	87	72	100	106	11	-152	-170	-137	-57	86	124	62	-68	-303	-424	-347	-141
103	240	236	234	160	64	-147	-361	-337	-76	148	259	220	196	134	-36	-269	-287	-107	159
290	288	183	49	-10	-124	-189	-96	29	64	97	119	2	-95	-137	-149	-72	90	131	101
14	-70	-80	-157	-249	-153	-14	83	103	60	-10	-83	-68	52	6	-85	-141	-136	-168	-143
-28	61	92	244	467	628	602	353	109	-27	-1	11	-37	-81	-98	-138	-138	-128	-133	-16
248	412	444	380	65	-482	-964	-1090	-1012	-712	-487	-363	-332	-223	-46	290	781	880	470	-5
-395	-488	-379	-301	27	446	863	1142	1018	640	205	44	97	87	187	365	510	562	447	597
665	388	170	134	57	-42	-246	-529	-878	-1153	-1065	-701	-207	168	342	190	-17	-114	-256	-478
-837	-1068	-1002	-626	-113	-40	-352	-632	-686	-615	-532	-468	-353	-68	275	662	872	705	385	132
43	290	827	1217	1027	660	350	262	332	461	723	992	1081	1291	1407	1143	710	360	88	-166
-267	-281	-365	-460	-473	-312	-194	-322	-596	-881	-1142	-1309	-1373	-1319	-1285	-1225	-1216	-1068	-781	-403
-167	-383	-836	-1260	-1499	-1489	-1335	-1168	-813	-298	168	801	1272	1262	1039	679	668	1025	1321	1402
1288	932	619	493	459	431	559	814	1051	1182	1382	1361	972	540	357	483	717	853	838	586
93	-247	-365	-495	-739	-874	-700	-426	-33	790	1343	1340	1079	665	183	-287	-922	-1312	-1555	-1722
-1810	-1653	-1256	-947	-944	-1083	-1013	-806	-637	-483	-318	-32	329	530	425	108	-467	-1265	-1840	-2056
-1924	-1496	-997	-526	-129	252	430	560	760	845	761	629	478	160	-150	-179	281	732	865	746
490	106	-105	-115	30	452	1012	1510	1812	1859	1891	1836	1492	1040	580	177	-49	-191	-224	-173
-50	-35	-28	-204	-496	-765	-904	-825	-590	-339	-300	-210	-123	91	414	602	543	245	-150	-507
-635	-462	-305	-326	-579	-758	-785	-712	-658	-635	-637	-563	-354	-58	302	597	683	699	621	484
392	334	211	7	-150	-281	-352	-420	-475	-452	-344	-133	162	505	718	818	1003	1199	1203	987
714	397	80	-172	-421	-642	-818	-846	-716	-412	147	626	865	889	688	310	47	-75	-239	-390
-326	-158	-40	-52	-179	-382	-656	-833	-803	-577	-248	36	163	34	-129	-242	-256	-240	-160	-20
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76	263	417	502	475	413	355	309	206	55	-98	-166	-246	-304	-241	-189	-278	-398	-526	-664
-710	-630	-488	-392	-365	-311	-231	-194	-164	-145	-176	-275	-328	-278	-170	-78	10	117	226	253
151	-63	-330	-621	-827	-800	-585	-369	-117	210	503	666	676	553	399	177	-58	-191	-67	172
424	708	853	749	468	109	-212	-427	-450	-306	32	493	858	1115	1253	1205	911	558	196	-84
-287	-352	-296	-192	-126	-85	-22	-19	-104	-297	-548	-686	-571	-278	41	231	232	123	-9	-110
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374	556	739	822	746	521	274	61	-115	-278	-355	-312	-167	60	300	525	593	508	329	82
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-126	-103	-81	-92	-141	-208	-263	-274	-224	-152	-86	-12	79	169	199	156	119	112	119	104
75	26	-66	-161	-196	-181	-143	-114	-85	-20	68	98	38	-59	-110	-105	-24	71	121	81

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209	222	257	310	357	360	328	286	241	206	184	175	168	171	187	193	166	128	86	37
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158	108	70	61	107	173	240	270	255	216	142	63	-5	-60	-108	-115	-82	-41	-13	-14
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56	79	89	87	62	43	46	69	94	123	150	156	138	92	9	-12	-2	17	50	64
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-97	-26	3	-5	-35	-71	-106	-133	-130	-98	-54	-13	-7	-22	-34	-41	-41	-30	-21	-14
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-63	-82	-94	-66	-16	15	9	-24	-38	-42	-41	-68	-112	-148	-158	-141	-119	-100	-68	-40
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IIG111 71.031.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 268 JET PROPULSION LAB., 9TH FLOOR, PASADENA, CAL. COMP DOWN 34 12 01N,118 10 25W
INSTR PERIOD = 0.0470 SEC DAMPING = 0.581 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = 248.0 CM/SEC/SEC AT 4.16 SEC VELO = -12.4 CM/SEC AT 5.74 SEC DISP = 2.8 CM AT 8.86 SEC

INITIAL VELO = -0.73209 CM/SEC INITIAL DISP = 0.07546 CM

4950 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

756	641	-125	-840	-954	-619	-162	421	977	970	366	-198	-441	-550	-387	-8	195	285	360	354
-82	-679	-756	-431	-85	258	500	838	965	468	-304	-955	-1203	-570	338	1039	1276	933	271	-510
-951	-1193	-963	-68	570	621	320	-86	-378	-180	52	98	50	191	429	353	273	26	-400	-582
-382	5	-53	-237	-292	-335	-350	-193	182	522	605	601	550	269	-135	-386	-533	-428	184	709
877	461	-56	-545	-1200	-1633	-1024	312	1007	966	815	167	-789	-1297	-721	380	1082	1319	1229	706
-404	-1556	-1899	-956	458	1460	1879	760	-333	-1195	-1347	-744	-67	331	604	709	595	-45	-624	-393
606	1105	536	-925	-1903	-1770	-372	1180	1087	811	863	7	-1055	-1164	-141	840	1205	865	410	-172
-894	-1409	-872	-345	144	1018	1443	754	-275	-731	-577	-831	-828	112	490	336	141	107	396	509
143	-53	169	205	-626	-1377	-1563	-1138	-114	1245	2385	2200	892	-648	-2034	-2244	-1446	-107	1171	1577
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11	5	-1	-3	-9	-3	5	12	21	19										

IIG112 71.038.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 163 611 WEST SIXTH STREET, BASEMENT, LOS ANGELES, CAL. COMP N52W 34 02 57N,118 15 16W
INSTR PERIOD = 0.0460 SEC DAMPING = 0.553 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = 101.9 CM/SEC/SEC AT 7.70 SEC VELO = 17.0 CM/SEC AT 7.88 SEC DISP = 11.0 CM AT 9.22 SEC

INITIAL VELO = -2.56803 CM/SEC INITIAL DISP = -0.89659 CM

2601 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

39	125	172	62	-41	-49	15	61	23	27	33	63	110	66	24	62	79	-20	-60	29
126	126	99	43	-10	15	55	46	30	17	-11	24	47	78	5	-118	-50	67	80	29
-19	-3	44	-1	-43	-38	16	101	145	67	9	97	134	24	-61	-46	-64	-27	85	67
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-73	-74	-52	-82	-125	-126	-129	-116	-77	-174	-191	-148	-190	-254	-266	-107	-16	-23	6	-23
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-50	-1	60	24	-152	-314	-331	-526	-592	-297	-219	-316	-226	-122	31	9	10	27	164	152
-116	-289	-229	-147	142	176	66	25	-261	-389	-155	-58	-182	77	266	96	-142	8	190	165
-16	-15	78	-2	162	428	292	56	-109	-135	316	616	496	322	-11	-148	-127	79	253	314
194	-268	-362	-75	26	41	-61	-236	-344	-507	-390	-223	-441	-500	-445	-510	-551	-509	-362	-135
-109	-105	-48	0	199	208	88	189	95	-98	18	-149	-572	-756	-517	-286	-331	-424	-293	-74
-86	-55	166	320	336	352	417	475	712	909	880	827	908	849	635	457	502	347	96	88
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707	481	327	294	279	166	115	196	334	318	93	-71	-165	-133	7	152	152	-4	-259	-378
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80	-63	-85	-72	-56	-175	-288	-85	180	188	-111	-354	-322	-241	-207	-283	-249	-128	-53	-44
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139	164	145	132	183	170	121	133	125	31	-75	-89	-75	-76	-80	-69	-78	-56	24	81
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81	61	76	61	13	8	67	115	82	54	80	116	124	97	77	92	97	85	94	129
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55	75	87	93	94	83	42	4	24	44	26	10	-6	-33	-56	-32	-1	-12	-50	-46
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5

IIG112 71.038.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 163 611 WEST SIXTH STREET, BASEMENT, LOS ANGELES, CAL. COMP N38E 34 02 57N,118 15 16W
INSTR PERIOD = 0.0460 SEC DAMPING = 0.552 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = 78.5 CM/SEC/SEC AT 7.66 SEC VELO = -15.7 CM/SEC AT 13.04 SEC DISP = -9.2 CM AT 10.44 SEC

INITIAL VELO = 1.55549 CM/SEC INITIAL DISP = -0.18673 CM

2598 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

-65	-27	0	-36	11	58	-5	-146	-209	-40	98	88	48	-50	-46	-8	18	-33	-42	-13
3	77	75	7	-68	-73	-8	-37	-44	-29	-101	-48	-21	-25	34	85	32	-52	-51	21
53	27	-7	-64	-70	-34	53	89	92	99	72	24	52	85	14	-48	-110	-127	-92	-74
23	57	-88	-124	8	94	74	8	-5	13	63	102	43	-62	-75	-135	-78	4	-35	-85
-98	-41	65	76	67	68	36	39	73	64	9	-27	-33	-121	-92	-62	-100	-83	-83	-21
-29	-129	-128	-108	-57	-32	-109	-87	106	182	198	82	46	135	138	91	63	287	412	168
101	18	-18	-42	-248	-292	-132	-200	-232	-323	-271	4	28	-224	-397	-457	-337	-244	-236	-127
170	414	209	-120	-123	-68	3	152	301	181	-4	76	134	-17	50	338	533	380	96	10
43	205	313	150	-52	-90	-74	-217	-333	-316	-248	-18	265	151	-324	-438	-84	301	381	366
141	-174	-234	-73	91	23	-214	-407	-428	-323	-64	31	21	-2	-18	-164	-282	-119	2	140
321	271	117	-3	91	245	91	77	49	-67	115	5	-65	256	229	-77	-45	225	229	272
537	550	248	301	347	191	71	256	412	16	-297	-312	-113	-25	-12	112	-101	-439	-510	-444
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63	65	58	39	29	23	22	22	23	33	50	47	46	38	29	25	34	42	48	49
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7	4	8	10	13	22	33	32	28	26	26	24	22	23	24	27	28	27		

IIG112 71.038.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 163 611 WEST SIXTH STREET, BASEMENT, LOS ANGELES, CAL. COMP DOWN 34 02 57N,118 15 16W
INSTR PERIOD = 0.0470 SEC DAMPING = 0.611 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = 53.2 CM/SEC/SEC AT 5.56 SEC VELO = 10.0 CM/SEC AT 8.26 SEC DISP = -5.2 CM AT 7.46 SEC

INITIAL VELO = 0.61808 CM/SEC INITIAL DISP = -0.17761 CM

2600 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

11	109	263	290	174	-9	-108	5	107	35	4	-43	21	115	19	-155	-143	-172	-303	-214
-5	106	110	5	-133	-96	41	190	132	-90	-150	-129	71	250	168	-36	-131	-16	116	51
-110	-168	-169	-220	-258	-196	-63	69	130	36	21	103	105	38	-64	-90	-48	19	165	85
-220	-257	-130	-45	-85	-111	-39	47	56	54	58	74	39	19	27	-7	-13	51	0	-101
-52	-21	-21	-9	-33	-76	-45	35	49	63	-22	-42	51	174	48	-64	-90	-99	-69	-126
-203	-264	-179	2	90	41	-49	-185	-204	-97	-66	-117	-122	-30	41	134	190	89	32	36
1	-20	-30	44	195	240	199	201	217	242	285	147	-91	-180	-159	-44	26	147	165	108
-24	-173	-49	41	-109	-268	-242	-233	-154	59	241	286	234	79	-44	-43	-46	-43	-36	-55
100	264	332	251	159	-3	-106	186	439	221	43	-6	-191	-333	-258	-149	-43	139	117	-13
-1	90	169	101	-33	22	165	295	153	-29	-41	-53	-144	-52	115	30	-188	-182	-89	-17
127	258	169	-12	-210	-227	46	176	38	-214	-348	-167	229	513	320	-68	-178	-142	-97	-76
-3	-14	12	-49	-89	-8	156	176	34	-69	61	235	159	45	-32	-27	-7	38	36	49
128	130	67	31	-51	-100	-64	-148	-291	-203	-79	-74	-52	-4	-48	-140	-61	36	-67	-271
-433	-409	-286	-164	-13	140	145	160	192	87	-148	-303	-406	-433	-290	-135	42	314	532	486
288	-4	-197	-43	114	56	17	94	53	-59	-48	108	129	105	71	-74	-193	-221	-384	-349
-156	-25	95	193	151	-12	-92	-116	-146	-152	-133	-150	-294	-366	-194	-6	22	-12	-20	74
127	129	9	-250	-221	-116	-82	-71	-67	-197	-343	-256	-108	-41	-66	-143	-206	-129	-68	-44
-39	-61	-117	-47	109	165	178	165	99	185	362	326	178	39	16	58	38	36	156	211
77	-42	13	174	313	324	288	245	150	73	112	211	316	328	294	207	139	166	219	158
30	-57	-121	-163	-41	102	73	39	73	141	182	295	429	457	334	97	-65	-44	3	1
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-30	-106	-158	-128	-59	-45	-102	-156	-166	-178	-187	-187	-213	-244	-245	-180	-132	-110	-104	-152
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8	98	160	182	150	93	81	65	35	70	118	102	78	71	69	98	121	69	21	-4
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74	101	127	155	177	181	178	168	150	155	129	109	116	98	75	88	133	163	120	43
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3	3	3	6	10	9	6	0	-9	-2	11	16	13	10	9	9	9	10	9	1
-3	-5	-6	-3	1	2	-2	-9	-15	-20	-18	-15	-18	-21	-19	-13	-12	-13	-12	-10
-11	-12	-5	1	-1	-2	-3	-3	-5	-6	-7	-6	-2	4	7	8	4	0	-2	-4
-7	-9	-4	8	11	10	6	1	3	10	18	16	1	-2	-2	1	4	7	13	16
9	2	5	9	9	8	6	2	-2	-3	2	7	7	5	5	3	0	0	3	2
1	2	6	6	3	1	-2	-5	-9	-9	-3	5	5	-4	-7	-7	2	0	-5	-9
-13	-11	-7	-4	-1	-2	-7	-8	-8	-10	-10	-9	-11	-15	-12	-8	-8	-8	-5	-3
0	1	-2	-8	-12	-7	-6	-6	-9	-17	-22	-20	-12	-9	-8	-6	-5	-6	-12	-11
-9	-20	-18	-8	-5	-8	-7	-6	-8	-12	-11	-9	-7	-3	-1	-9	-12	-9	-5	1
3	4	5	11	12	9	5	0	-3	0	-3	-9	-9	-9	-4	11	12	7	5	3
8	17	16	16	22	30	28	28	26	21	22	26	19	15	16	15	9	2	0	2
3	3	3	3	4	7	9	7	11	17	16	16	16	15	17	25	31	30	27	22

IIG113 71.040.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 165 611 WEST SIXTH STREET, 42ND FLOOR, LOS ANGELES, CAL. COMP N38E 34 02 57N,118 15 16W
INSTR PERIOD = 0.0490 SEC DAMPING = 0.608 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = -108.8 CM/SEC/SEC AT 4.70 SEC VELO = 48.8 CM/SEC AT 9.36 SEC DISP = 38.3 CM AT 10.40 SEC

INITIAL VELO = 1.27030 CM/SEC INITIAL DISP = 1.50575 CM

2420 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

-268	-316	-314	-310	-305	-315	-360	-417	-450	-442	-409	-375	-319	-279	-287	-312	-328	-308	-256	-170
-38	84	150	146	150	176	190	197	204	197	200	236	299	369	443	548	628	636	552	412
299	209	129	90	40	-18	-32	-64	-149	-223	-239	-224	-175	-66	75	168	186	129	40	-13
-40	-81	-146	-237	-330	-371	-393	-424	-461	-497	-516	-499	-432	-321	-204	-124	-53	17	94	168
264	351	406	415	385	334	274	217	162	126	172	281	390	452	463	469	462	468	512	564
617	629	587	544	516	473	430	418	407	358	284	215	147	77	-15	-88	-120	-137	-128	-96
-96	-119	-150	-169	-213	-251	-244	-230	-185	-133	-157	-217	-314	-438	-567	-710	-776	-780	-794	-800
-791	-761	-736	-746	-710	-597	-449	-309	-177	-68	-29	-26	-28	-42	-42	18	147	289	408	557
718	783	845	935	990	978	889	753	556	358	220	126	23	-62	-123	-166	-189	-196	-151	-90
-34	44	140	178	217	238	241	226	232	244	243	244	269	287	278	242	202	172	161	154
157	142	89	20	-56	-154	-264	-400	-539	-636	-663	-610	-526	-426	-340	-238	-131	-37	54	137
208	276	335	376	386	366	303	207	83	-78	-273	-513	-737	-911	-1030	-1088	-1052	-965	-877	-763
-645	-563	-462	-332	-218	-123	-5	99	152	165	165	141	128	137	161	151	140	110	78	68
95	149	239	350	461	582	697	773	842	872	837	755	613	432	240	97	-36	-164	-256	-344
-402	-391	-332	-283	-223	-165	-123	-71	-39	10	68	64	46	27	-12	-82	-147	-197	-231	-263
-274	-253	-218	-168	-130	-126	-152	-185	-243	-349	-443	-522	-590	-639	-671	-671	-657	-651	-646	-631
-588	-535	-496	-468	-456	-458	-456	-435	-419	-409	-386	-348	-327	-305	-269	-235	-204	-180	-156	-90
-29	19	70	124	155	181	215	247	244	244	262	269	255	252	260	263	266	277	297	306
295	270	236	185	113	51	8	-25	-59	-100	-139	-164	-179	-179	-146	-87	-19	42	100	152
187	204	202	197	182	144	105	62	22	-12	-36	-38	-12	34	92	148	201	262	332	395
439	463	488	505	519	540	559	583	605	610	610	611	629	654	680	711	723	729	738	738
719	688	648	609	569	531	502	473	448	434	426	430	445	463	474	479	486	491	492	493
499	507	515	523	533	544	554	564	575	581	561	517	453	378	300	248	216	188	169	161
153	135	105	77	53	36	25	14	3	-10	-30	-52	-72	-87	-99	-111	-126	-141	-163	-196
-238	-283	-327	-374	-422	-455	-462	-459	-451	-430	-420	-421	-425	-427	-445	-478	-502	-525	-551	-569
-579	-583	-583	-578	-571	-572	-583	-599	-619	-644	-672	-692	-725	-771	-815	-847	-876	-897	-901	-895
-886	-876	-865	-859	-853	-842	-837	-836	-836	-833	-826	-806	-781	-759	-738	-718	-698	-673	-641	-595
-545	-496	-440	-378	-315	-250	-194	-148	-106	-64	-23	5	25	38	42	48	61	77	95	107
110	104	105	100	90	78	62	53	73	96	110	129	149	157	155	145	125	100	81	65
52	37	18	-8	-32	-52	-67	-65	-39	-8	18	36	51	65	79	83	70	51	31	-7
-44	-65	-80	-86	-89	-85	-74	-52	-31	-19	-16	-10	-2	13	36	73	119	165	208	261
308	356	407	456	503	551	595	621	619	615	596	572	545	513	486	465	448	434	412	378
342	306	272	253	252	249	237	220	202	188	180	179	183	192	204	212	216	214	210	205
204	213	226	240	254	265	269	270	267	260	254	256	264	280	298	326	372	419	466	513
555	586	604	617	619	606	592	577	562	549	535	512	490	473	456	437	422	417	420	424
417	406	389	366	333	293	253	218	191	173	152	118	82	46	11	-20	-44	-59	-68	-73
-71	-65	-65	-69	-70	-68	-72	-85	-98	-108	-115	-114	-112	-112	-108	-102	-96	-96	-103	-108
-116	-132	-151	-166	-181	-195	-209	-224	-241	-262	-288	-316	-342	-360	-371	-379	-392	-404	-410	-416
-424	-434	-447	-463	-485	-511	-542	-575	-603	-624	-635	-628	-607	-574	-543	-518	-493	-470	-446	-423
-401	-381	-361	-336	-305	-268	-235	-209	-197	-194	-189	-190	-191	-176	-157	-151	-149	-155	-170	-195

-215	-219	-215	-203	-184	-165	-156	-147	-137	-127	-115	-106	-103	-108	-122	-138	-154	-162	-164	-165
-165	-172	-182	-194	-209	-225	-239	-246	-244	-239	-229	-219	-209	-199	-189	-179	-168	-155	-142	-130
-119	-116	-114	-107	-99	-93	-90	-87	-83	-78	-71	-66	-62	-63	-66	-71	-78	-81	-82	-79
-73	-64	-49	-33	-17	-3	6	14	22	27	22	10	-11	-35	-57	-73	-83	-87	-82	-64
-50	-40	-23	-4	8	16	24	32	37	39	41	41	39	37	39	47	58	74	88	100
116	134	156	186	215	233	246	252	257	262	272	284	296	305	308	309	318	331	347	369
389	408	427	448	471	502	533	557	573	574	561	535	504	473	451	431	411	401	400	400
400	390	377	369	361	349	334	322	309	297	285	272	256	240	225	211	200	194	192	193
193	186	180	174	170	166	163	159	152	142	135	132	130	124	116	108	103	100	92	70
47	28	13	5	1	0	5	10	18	25	26	24	25	27	28	25	23	18	9	-4
-23	-41	-56	-58	-47	-33	-15	3	19	27	30	29	23	14	4	-6	-13	-18	-24	-30
-42	-69	-99	-124	-147	-164	-172	-172	-167	-166	-166	-162	-158	-155	-153	-148	-143	-140	-142	-153
-169	-183	-200	-227	-261	-291	-322	-353	-383	-407	-425	-432	-431	-417	-401	-383	-363	-333	-295	-271
-248	-213	-178	-149	-127	-110	-108	-116	-121	-132	-145	-152	-144	-129	-118	-107	-109	-121	-127	-132
-138	-140	-137	-144	-140	-134	-129	-128	-123	-115	-110	-108	-110	-113	-113	-111	-119	-138	-161	-164
-176	-188	-192	-201	-211	-213	-211	-210	-204	-189	-166	-146	-134	-120	-109	-101	-95	-91	-89	-83
-82	-80	-72	-61	-51	-39	-23	-18	-21	-14	-8	-9	-4	2	3	5	8	2	-11	-17
-35	-68	-89	-106	-123	-131	-139	-139	-143	-153	-156	-162	-175	-192	-194	-189	-179	-159	-136	-108
-90	-72	-57	-45	-32	-26	-17	-5	5	12	11	12	17	22	32	41	54	75	93	111
141	174	199	229	253	262	278	288	294	293	282	264	234	201	183	174	174	180	187	188
195	200	198	195	199	203	201	199	198	198	199	194	195	186	185	193	200	216	241	256
265	271	281	285	286	288	284	271	264	260	244	220	209	218	230	246	264	284	295	298
302	302	297	293	291	279	268	250	221	191	176	169	166	170	158	148	137	130	125	123
124	113	97	87	79	64	43	26	4	-8	-20	-43	-49	-61	-75	-81	-75	-66	-46	-20
-1	7	12	15	14	24	30	37	44	43	44	47	50	48	50	58	69	73	64	57
52	46	35	30	22	13	14	5	-6	-21	-39	-41	-46	-65	-79	-93	-108	-121	-148	-176
-191	-204	-218	-222	-221	-221	-214	-214	-215	-218	-217	-216	-217	-221	-222	-218	-226	-228	-227	-237
-237	-230	-227	-217	-203	-194	-180	-169	-161	-157	-152	-147	-141	-140	-134	-128	-124	-120	-123	-122
-135	-146	-144	-155	-175	-186	-194	-224	-262	-257	-262	-279	-292	-294	-306	-324	-328	-331	-338	-347
-358	-373	-375	-366	-350	-326	-296	-256	-219	-191	-178	-171	-163	-150	-134	-119	-107	-92	-87	-92
-89	-86	-80	-68	-54	-40	-24	-1	14	18	20	36	60	77	90	103	99	96	102	99
98	108	115	115	105	101	97	88	84	87	93	98	90	70	52	40	32	29	39	50
67	68	67	67	63	59	53	58	75	88	96	103	105	107	104	106	109	105	100	96
93	96	108	115	131	152	156	157	164	184	206	223	237	245	237	221	188	167	155	144
139	135	118	120	132	138	141	152	151	150	152	151	131	117	106	103	109	114	118	131
137	140	150	165	183	199	213	214	217	217	209	210	217	216	207	201	211	202	191	187
176	172	173	163	159	164	169	166	159	155	161	157	141	137	133	135	124	114	109	102
81	59	56	51	30	11	2	-3	2	2	-10	-15	-19	-16	-15	-18	-26	-30	-37	-56
-75	-74	-85	-96	-95	-105	-112	-116	-121	-122	-120	-120	-121	-120	-123	-130	-126	-122	-116	-105
-96	-86	-76	-78	-77	-79	-90	-100	-110	-121	-131	-148	-165	-175	-188	-197	-207	-213	-209	-220
-224	-228	-230	-218	-212	-219	-220	-216	-210	-202	-186	-173	-159	-139	-118	-96	-88	-82	-85	-97
-110	-124	-135	-134	-129	-120	-116	-121	-129	-133	-134	-130	-128	-119	-117	-118	-109	-107	-105	-99
-96	-99	-98	-91	-83	-74	-60	-52	-47	-41	-38	-44	-47	-49	-57	-67	-72	-75	-79	-85
-85	-81	-72	-60	-51	-46	-49	-50	-50	-46	-42	-40	-37	-35	-49	-59	-65	-69	-72	-67
-58	-48	-38	-32	-24	-17	-9	-3	6	16	20	23	21	18	17	19	23	30	35	44
53	58	58	59	65	71	70	69	65	61	59	57	55	55	58	58	61	68	73	78
89	99	107	114	116	117	116	116	116	112	105	101	101	101	101	101	101	99	93	89
94	96	94	94	96	97	95	91	87	84	81	81	84	84	83	82	86	94	110	124
131	138	143	137	130	126	122	117	114	113	109	106	104	103	100	99	99	100	103	98
93	93	89	83	80	76	73	71	67	65	64	60	59	57	64	74	79	80	81	81

81	79	74	65	63	61	56	49	47	50	57	67	75	81	90	101	105	106	109	107
101	90	79	70	57	42	29	18	15	14	11	8	6	5	3	0	-1	-8	-11	-11
-12	-15	-20	-23	-25	-32	-38	-39	-38	-41	-44	-45	-47	-49	-48	-51	-55	-59	-65	-74
-84	-94	-105	-114	-124	-131	-133	-134	-131	-128	-128	-125	-116	-109	-101	-93	-86	-81	-77	-72
-68	-66	-67	-70	-74	-82	-79	-69	-64	-61	-58	-56	-60	-63	-67	-73	-79	-87	-89	-95
-110	-114	-117	-130	-142	-148	-151	-156	-155	-149	-146	-142	-134	-129	-126	-127	-128	-127	-118	-102
-90	-80	-67	-59	-54	-50	-48	-47	-43	-41	-43	-45	-47	-51	-55	-60	-66	-71	-73	-75
-78	-78	-81	-87	-94	-99	-107	-117	-120	-116	-111	-103	-94	-88	-82	-73	-71	-65	-59	-55
-53	-51	-50	-50	-48	-46	-45	-42	-36	-29	-19	-11	-3	5	10	16	18	20	23	21
14	13	11	6	2	-4	-13	-20	-27	-37	-45	-47	-50	-48	-40	-37	-37	-35	-28	-23
-23	-23	-23	-26	-27	-19	-11	-9	-9	-7	-3	4	13	19	24	33	44	51	57	64
71	72	73	78	86	88	87	88	88	88	94	106	112	113	120	130	134	137	143	151
161	173	176	184	190	195	203	210	217	227	238	245	255	265	269	267	260	245	226	210
201	192	184	180	173	168	167	161	155	152	149	145	141	136	132	133	131	130	125	113
103	96	89	83	81	77	72	68	62	58	53	46	36	29	25	16	9	11	9	5
-3	-12	-14	-16	-21	-25	-27	-27	-29	-31	-30	-28	-31	-31	-28	-26	-26	-27	-25	-24
-26	-26	-19	-20	-22	-22	-22	-25	-27	-29	-27	-26	-34	-35	-29	-26	-29	-28	-26	-26
-27	-32	-34	-38	-35	-28	-30	-36	-46	-56	-59	-62	-64	-67	-69	-72	-75	-77	-79	-80
-80	-84	-87	-90	-92	-96	-99	-95	-87	-84	-78	-73	-66	-61	-59	-55	-49	-45	-41	-41
-42	-43	-43	-45	-50	-60	-68	-77	-89	-94	-99	-117	-131	-141	-147	-150	-153	-156	-159	-162
-163	-163	-161	-157	-150	-144	-140	-139	-138	-133	-129	-130	-132	-133	-130	-127	-128	-127	-125	-122
-117	-116	-115	-115	-116	-116	-115	-113	-109	-105	-100	-97	-95	-90	-81	-70	-57	-47	-41	-35
-29	-25	-22	-20	-17	-12	-8	-9	-11	-9	-8	-8	-7	-3	1	5	9	13	16	19
21	21	24	32	38	40	42	42	42	42	42	39	34	33	33	35	39	43	48	54
60	68	78	88	96	100	105	113	116	116	115	114	110	106	108	111	114	117	118	119
117	112	109	108	103	95	90	85	80	75	68	65	65	62	57	51	46	43	41	43
46	46	45	49	57	61	65	67	69	70	68	67	65	67	68	69	69	71	71	69
68	68	69	72	75	79	83	87	92	97	102	108	115	120	118	113	108	101	92	84
76	69	62	55	49	44	40	35	27	20	13	9	5	1	-2	-8	-14	-16	-16	-18
-22	-26	-30	-33	-37	-43	-49	-53	-56	-57	-56	-54	-59	-62	-64	-64	-64	-64	-64	-64
-65	-65	-65	-65	-65	-65	-66	-68	-68	-66	-65	-64	-65	-67	-69	-70	-76	-82	-85	-85

IIG113 71.040.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 165 611 WEST SIXTH STREET, 42ND FLOOR, LOS ANGELES, CAL. COMP N52W 34 02 57N,118 15 16W
INSTR PERIOD = 0.0470 SEC DAMPING = 0.617 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = 177.6 CM/SEC/SEC AT 2.90 SEC VELO = -66.4 CM/SEC AT 14.68 SEC DISP = 64.6 CM AT 13.02 SEC

INITIAL VELO = 9.21122 CM/SEC INITIAL DISP = 1.24377 CM

2421 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

-433	-371	-340	-320	-303	-286	-256	-186	-78	53	214	336	403	485	550	634	735	745	671	520
344	201	106	60	28	5	0	-41	-131	-239	-356	-427	-485	-490	-483	-506	-561	-619	-626	-543
-409	-247	-178	-168	-157	-175	-216	-260	-288	-294	-298	-310	-310	-345	-370	-403	-469	-496	-482	-419
-325	-242	-177	-110	-95	-60	-9	40	69	59	49	88	154	255	356	427	468	483	533	604
661	693	650	563	461	372	335	326	305	225	88	-46	-153	-243	-294	-333	-378	-427	-509	-647
-780	-886	-969	-980	-943	-831	-660	-490	-340	-226	-142	-91	-84	-105	-150	-206	-271	-332	-401	-560
-743	-869	-990	-1007	-924	-838	-745	-673	-655	-622	-584	-507	-369	-202	-30	120	189	234	324	524
814	1101	1358	1558	1707	1776	1729	1624	1456	1218	1009	833	668	540	431	317	227	101	-31	-119
-156	-216	-335	-506	-667	-820	-913	-932	-896	-811	-662	-516	-408	-304	-186	-88	41	174	239	298
364	408	472	536	626	689	768	787	761	676	563	472	374	247	148	42	-59	-141	-182	-195
-208	-253	-316	-373	-406	-441	-489	-566	-645	-689	-661	-579	-464	-350	-243	-151	-92	-47	40	117
179	240	240	212	202	201	239	322	404	470	550	633	690	779	879	957	983	974	951	963
966	915	809	675	546	433	300	203	171	178	205	245	292	359	453	549	623	662	658	605
532	437	346	276	178	81	4	-56	-115	-172	-229	-325	-473	-582	-607	-535	-384	-192	5	249
503	700	916	1139	1263	1348	1343	1216	988	773	632	471	335	209	80	-13	-72	-122	-162	-202
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32	-70	-202	-365	-523	-667	-805	-911	-989	-1043	-1077	-1068	-1003	-909	-811	-715	-595	-483	-390	-285
-222	-176	-153	-147	-129	-107	-78	-49	-29	-23	-35	-87	-164	-259	-342	-451	-525	-616	-694	-723
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-253	-216	-174	-128	-103	-92	-83	-89	-101	-111	-121	-131	-154	-192	-242	-303	-358	-386	-408	-426
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264	318	373	436	507	587	660	724	775	817	842	837	770	646	511	409	324	242	174	117
67	29	8	11	25	38	52	57	57	62	70	91	116	146	181	230	297	396	529	682
845	981	1038	1054	1013	927	823	721	640	561	464	371	301	266	273	317	389	460	523	583
618	624	610	573	520	475	433	389	337	267	195	124	57	1	-32	-48	-44	-27	12	75
133	195	254	324	406	495	584	662	713	737	735	715	693	689	699	720	739	739	735	729
725	728	728	748	775	790	791	778	754	723	695	665	633	601	580	552	518	477	448	420
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-468	-516	-559	-600	-654	-719	-768	-821	-855	-900	-934	-948	-930	-895	-841	-781	-753	-752	-761	-786
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-763	-670	-598	-546	-517	-493	-473	-460	-445	-405	-368	-339	-309	-294	-289	-287	-293	-286	-281	-277
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-595	-620	-636	-631	-617	-588	-538	-461	-374	-318	-285	-251	-232	-216	-203	-193	-194	-185	-163	-148
-143	-143	-142	-140	-137	-119	-106	-102	-90	-80	-62	-50	-44	-22	9	42	75	111	158	205
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420	364	296	228	172	124	105	110	115	135	168	191	203	224	236	247	260	285	319	347
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162	147	134	134	117	108	103	88	74	50	8	-20	-39	-67	-89	-106	-109	-132	-167	-183
-188	-213	-256	-287	-322	-361	-398	-445	-492	-520	-530	-531	-533	-539	-540	-525	-494	-464	-410	-355
-313	-290	-272	-247	-232	-206	-183	-165	-167	-163	-170	-185	-193	-208	-243	-293	-347	-386	-432	-496
-550	-599	-653	-696	-734	-781	-834	-863	-886	-894	-903	-894	-876	-860	-846	-814	-779	-751	-723	-705
-702	-705	-701	-695	-703	-707	-707	-716	-695	-659	-638	-612	-571	-537	-520	-495	-477	-465	-453	-427
-407	-389	-372	-363	-360	-350	-332	-314	-296	-291	-294	-281	-274	-273	-269	-258	-255	-247	-230	-220
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227	204	191	187	179	172	174	186	191	184	173	167	167	183	183	179	198	232	269	294
311	323	320	314	314	303	297	297	295	290	284	279	274	263	247	241	233	213	190	181
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-191	-208	-226	-253	-263	-275	-271	-267	-258	-251	-242	-242	-244	-259	-278	-281	-283	-291	-299	-304
-312	-322	-334	-348	-349	-354	-358	-362	-367	-370	-384	-385	-382	-378	-365	-353	-349	-338	-323	-306
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-304	-305	-305	-299	-299	-293	-282	-282	-278	-271	-270	-281	-273	-259	-246	-243	-236	-233	-226	-216
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-186	-182	-179	-179	-176	-172	-165	-158	-154	-148	-145	-138	-130	-123	-115	-109	-100	-88	-75	-61
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197	191	184	174	165	156	148	139	130	124	129	129	127	123	118	112	105	98	89	78
74	67	57	47	37	28	19	11	2	-11	-19	-26	-39	-52	-63	-77	-96	-119	-140	-161
-177	-194	-218	-244	-265	-283	-294	-305	-313	-314	-307	-301	-292	-277	-262	-250	-237	-223	-212	-205
-197	-198	-203	-211	-222	-230	-232	-237	-241	-240	-232	-227	-220	-213	-204	-193	-180	-165	-155	-146
-131	-121	-117	-114	-109	-103	-99	-97	-95	-95	-89	-90	-92	-95	-100	-110	-119	-125	-130	-134
-132	-135	-139	-143	-147	-148	-148	-148	-150	-155	-152	-151	-153	-158	-158	-154	-153	-152	-152	-152
-148	-149	-150	-150	-154	-161	-163	-162	-160	-162	-159	-157	-158	-160	-165	-173	-182	-190	-196	-198
-195	-198	-200	-201	-200	-199	-194	-183	-173	-169	-162	-158	-154	-147	-142	-140	-137	-127	-118	-116
-114	-114	-116	-120	-123	-120	-115	-116	-116	-113	-109	-104	-100	-97	-95	-90	-84	-80	-79	-78
-77	-75	-72	-67	-62	-56	-49	-43	-41	-38	-29	-18	-10	-1	12	28	50	65	79	99
119	140	158	175	191	205	213	218	221	226	227	226	225	223	221	220	219	219	220	226
235	243	245	252	261	265	269	278	287	295	301	309	313	316	317	317	317	317	317	313
297	284	269	251	235	222	210	201	189	177	160	153	149	147	146	144	141	138	132	121
104	94	85	75	67	64	61	55	49	46	38	33	29	26	22	17	11	5	1	1
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76	78	82	84	83	81	78	74	66	57	43	35	26	17	9	4	-1	-6	-11	-15
-16																			

IIG113 71.040.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 165 611 WEST SIXTH STREET, 42ND FLOOR, LOS ANGELES, CAL. COMP DOWN 34 02 57N,118 15 16W
INSTR PERIOD = 0.0480 SEC DAMPING = 0.673 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = 128.4 CM/SEC/SEC AT 3.86 SEC VELO = -14.9 CM/SEC AT 3.30 SEC DISP = -6.0 CM AT 3.88 SEC

INITIAL VELO = -0.06805 CM/SEC INITIAL DISP = -1.03503 CM

2419 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

-42	-398	-350	175	773	1067	1017	674	177	-157	-346	-580	-770	-464	133	465	344	16	-220	-334
-394	-239	121	289	210	220	319	278	6	-200	-288	-394	-436	-184	212	340	96	-238	-327	-7
437	534	224	-144	-184	10	84	30	14	-124	-445	-592	-376	-5	380	549	441	131	-19	79
123	160	309	436	325	102	113	329	350	-18	-438	-641	-849	-1009	-911	-723	-523	-219	161	425
671	831	705	295	-148	-351	-407	-594	-731	-717	-615	-445	-267	-54	175	368	450	372	130	-238
-494	-455	-253	56	482	948	1187	1127	674	-76	-702	-841	-699	-519	-210	49	119	-32	-230	-327
-287	-97	256	308	149	-121	-297	-353	-365	-271	135	491	662	675	547	238	-167	-434	-525	-779
-976	-895	-477	26	220	-59	-224	68	533	700	626	323	57	-57	-105	-221	-381	-615	-738	-720
-659	-652	-641	-486	-196	73	211	300	550	792	805	699	698	748	686	529	288	52	-53	-146
-384	-580	-541	-429	-411	-447	-340	-140	-49	51	354	810	1164	1284	1237	961	498	-1	-300	-326
-83	175	236	114	-134	-312	-239	-41	-9	-170	-297	-362	-385	-295	-121	120	398	701	989	1185
1236	1101	789	291	-254	-560	-597	-515	-159	-336	-575	-410	-457	-307	-5	362	677	967	1068	1001
719	285	-74	-220	-350	-514	-544	-499	-469	-493	-535	-603	-602	-473	-311	-132	158	520	749	745
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290	84	0	131	147	35	-33	-88	-275	-456	-411	-242	-129	-101	-88	-108	-261	-458	-472	-435
-477	-460	-343	-178	69	400	589	677	770	754	727	743	695	456	8	-492	-766	-880	-988	-1020
-961	-789	-533	-246	37	387	718	970	1079	1072	997	776	440	91	-274	-642	-847	-973	-1081	-1062
-929	-644	-286	68	345	522	636	803	922	842	650	418	290	237	73	-177	-344	-470	-659	-756
-666	-448	-188	23	162	246	332	445	609	756	741	562	329	45	-187	-275	-253	-210	-157	-123
-93	-52	47	146	189	129	3	-98	-137	-106	-32	70	132	140	125	114	151	238	334	366
292	201	150	90	-1	-119	-287	-484	-642	-615	-472	-328	-236	-170	-98	34	205	392	516	525
478	437	416	403	338	186	-29	-201	-263	-207	-53	62	47	-64	-130	-135	-87	5	129	236
269	198	66	-28	2	51	12	-136	-303	-380	-367	-318	-220	-54	85	166	196	151	76	10
-36	-77	-114	-119	-90	-9	71	85	24	-62	-147	-224	-270	-217	-105	29	152	234	284	283
224	120	38	2	-82	-154	-184	-267	-362	-407	-408	-382	-337	-240	-138	-106	-86	-20	51	47
-20	-72	-116	-161	-162	-157	-177	-265	-361	-367	-357	-359	-280	-102	119	323	441	411	291	184
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-131	-98	-39	60	154	198	205	173	105	16	-72	-106	-103	-120	-160	-175	-149	-79	35	152
200	173	88	33	57	139	203	257	342	404	426	406	300	166	83	38	-9	-65	-98	-120
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-400	-349	-208	-112	-50	41	130	191	245	276	256	192	90	-69	-217	-274	-241	-160	-95	-67
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69	-13	-98	-145	-169	-172	-152	-166	-226	-248	-215	-156	-139	-133	-108	-74	-45	-16	38	92
128	135	124	96	48	-8	-33	-42	-59	-94	-110	-102	-94	-70	-24	46	107	133	139	125
121	156	178	157	125	78	28	-5	17	65	109	109	64	-3	-72	-113	-113	-94	-65	-36
-10	20	31	43	72	105	125	131	134	95	25	-53	-95	-109	-86	-30	26	41	22	-39

-118	-190	-227	-213	-148	-61	19	69	112	134	137	129	111	91	86	90	71	-1	-110	-192
-221	-230	-246	-257	-243	-198	-110	3	96	120	111	100	91	74	55	39	27	-3	-57	-108
-117	-97	-90	-136	-184	-191	-173	-143	-105	-60	-27	-6	7	11	22	36	51	50	35	18
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158	212	228	234	231	213	162	85	-14	-80	-118	-142	-146	-145	-115	-58	10	75	131	180
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IIG114 71.064.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 262 PALMDALE FIRE STATION, STORAGE ROOM, PALMDALE, CAL. COMP S60E 34 34 40N,118 06 45W
INSTR PERIOD = 0.0470 SEC DAMPING = 0.508 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = 110.8 CM/SEC/SEC AT 5.48 SEC VELO = 14.2 CM/SEC AT 5.74 SEC DISP = -3.8 CM AT 5.44 SEC

INITIAL VELO = -0.53570 CM/SEC INITIAL DISP = -0.05963 CM

2884 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

-43	-31	-161	-37	135	160	118	25	27	27	-88	-197	-169	-65	57	175	212	127	81	21
-81	29	90	58	-74	-194	-69	102	71	54	34	22	-26	98	193	24	-182	-243	-114	36
88	119	79	-19	1	0	56	62	69	77	-90	-192	-88	-20	10	27	-59	94	702	906
204	-582	-576	-67	-186	-845	-910	-80	668	698	222	19	355	624	527	209	53	135	-94	-396
-408	-357	-165	122	130	-12	-170	-355	-267	172	443	128	-528	-679	-159	239	134	-293	-598	-596
-482	-349	-164	254	711	792	495	91	-222	-354	-274	-179	-185	-186	-120	21	-4	-181	-20	341
646	842	441	-157	93	814	992	565	81	10	395	807	714	219	-325	-620	-446	-220	-644	-996
-828	-247	122	-8	-678	-938	-711	-695	-903	-888	-648	-424	-310	-171	200	723	1032	868	551	359
210	132	197	-64	-579	-895	-731	-206	36	-169	-203	31	284	90	-424	-653	-455	136	543	699
699	665	690	704	689	400	102	108	356	650	698	584	498	379	333	478	430	131	-87	-182
51	468	634	463	171	78	8	-239	-390	-355	-314	-327	-363	-375	-356	-432	-477	-420	-282	-102
-39	-292	-614	-692	-566	-343	-403	-505	-402	-242	-157	-132	-54	86	197	29	-276	-415	-318	-312
-505	-385	143	553	483	112	-229	-436	-608	-542	-274	-68	-102	-118	28	217	336	459	614	584
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810	136	-556	-645	-421	-291	-287	-411	-528	-516	-335	-112	-57	-235	-580	-765	-800	-551	-243	-253
-546	-811	-864	-569	98	632	811	435	-5	204	566	622	346	69	-35	-70	-273	-420	-285	25
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349	248	137	113	195	345	526	658	658	510	418	425	447	354	166	-56	-177	-111	-102	-297
-363	-286	-208	-206	-256	-241	-133	-12	82	129	25	-89	-82	-130	-127	21	82	-79	-294	-377
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-96	6	118	229	260	212	197	225	211	183	122	-8	-135	-179	-132	-80	-104	-139	-91	-50
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-18	-26	-33	-34																

IIG114 71.064.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 262 PALMDALE FIRE STATION, STORAGE ROOM, PALMDALE, CAL. COMP S30W 34 34 40N,118 06 45W
INSTR PERIOD = 0.0480 SEC DAMPING = 0.632 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = 136.2 CM/SEC/SEC AT 1.10 SEC VELO = -9.3 CM/SEC AT 6.90 SEC DISP = 2.8 CM AT 6.56 SEC

INITIAL VELO = -0.49985 CM/SEC INITIAL DISP = 0.23035 CM

2884 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

111	-4	-4	-21	-23	-37	-25	-1	3	-4	-8	36	-4	-64	7	43	3	-75	-101	-154
-50	70	196	147	129	44	7	-67	-144	-187	-50	30	144	137	71	46	1	-91	-77	-87
-72	19	70	150	103	95	33	-42	-52	-272	-542	-700	-471	339	1179	1362	582	-482	-615	-16
109	-457	-811	-410	151	439	349	-106	-243	-34	218	317	212	216	250	10	-393	-786	-673	-124
379	568	286	-93	-181	94	349	330	204	-54	-213	-229	-104	209	289	-57	-500	-588	-41	711
941	459	-131	-281	48	220	81	89	-8	-132	-106	99	325	344	560	802	593	-34	-572	-674
-612	-702	-722	-540	-252	47	562	1103	1211	610	-163	-574	-666	-404	-49	-14	-439	-902	-841	-339
182	580	779	515	-7	-470	-662	-455	-283	-252	-26	400	636	624	326	-180	-301	94	393	149
-277	-318	8	237	-18	-329	-534	-606	-485	-289	69	381	513	599	637	563	177	-294	-354	-169
144	351	377	380	241	101	257	226	-41	-273	-431	-434	-450	-496	-451	-465	-353	-54	9	-134
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-251	-169	-245	-259	28	363	419	265	105	95	172	153	60	30	95	235	203	20	-15	169
389	287	31	31	235	236	-129	-617	-527	-143	-114	-211	-139	62	183	56	-170	-401	-556	-525
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135	267	227	-78	-343	-300	-141	-81	-91	-149	-141	-70	20	-79	-398	-625	-609	-407	-272	-324
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17	12	7	8																

IIG114 71.064.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST EPICENTER 34 24 00N,118 23 42W
STATION NO. 262 PALMDALE FIRE STATION, STORAGE ROOM, PALMDALE, CAL. COMP DOWN 34 34 40N,118 06 45W
INSTR PERIOD = 0.0490 SEC DAMPING = 0.618 ACCELEROGRAM IS BAND-PASS FILTERED BETWEEN 0.125 AND 25 CYC/SEC.

PEAK VALS ACLN = -86.6 CM/SEC/SEC AT 4.06 SEC VELO = 7.8 CM/SEC AT 5.46 SEC DISP = -2.4 CM AT 4.80 SEC

INITIAL VELO = -0.10363 CM/SEC INITIAL DISP = -0.14120 CM

2884 INSTRUMENT AND BASELINE CORRECTED DATA IN MM/SEC/SEC AT EQUALLY-SPACED INTERVALS OF 0.02 SEC.

-118	122	367	186	-173	-147	107	205	-233	-250	59	240	-17	69	37	83	44	55	-72	-147
-58	25	-124	-99	70	331	155	-32	156	-140	-210	-111	-20	70	242	238	-224	-526	-136	41
131	-181	-259	-47	-10	165	239	347	408	344	-18	-88	179	-126	-468	-606	-491	148	449	260
144	-34	-36	-41	-173	-37	-2	195	393	56	-36	-187	-133	-237	-570	-297	153	376	421	191
-369	-423	35	0	-304	-548	-221	389	320	24	-331	-520	-450	-277	-225	-332	41	601	771	242
-303	-448	-553	-182	74	20	82	-219	-182	123	-73	-86	10	16	-8	-192	-66	502	809	489
227	169	146	279	332	-32	-155	121	490	613	487	283	200	-3	-451	-403	-308	-389	78	335
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-352	-412	-187	178	244	194	163	30	-204	-72	277	125	14	-96	-15	160	130	126	-25	-70
178	216	-70	-196	19	430	518	507	598	447	278	266	51	-198	-85	-17	-250	-423	-424	-421
-323	-363	-682	-866	-394	-248	-169	67	-77	-180	-166	-297	-195	88	84	50	163	122	116	218
179	-77	-365	-322	-22	40	-168	-150	79	557	361	40	85	101	391	454	-34	-87	277	531
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36	25	-9	-12	-2	1	3	-24	-53	-38	-11	17	20	-11	-22	-11	-15	-20	-14	-12
-31	-30	-10	14	22	12	2	-4	-13	-16	-6	8	5	-8	-12	-21	1	19	8	34
33	24	37	38	18	-2	3	-1	-17	-27	-21	-10	2	18	22	4	-20	-21	-6	-1
-6	-11	-18	-28	-44	-29	-9	-2	2	-8	-10	-13	-19	4	8	1	10	5	-3	36
45	33	20	1	6	15	17	23	26	21	15	18	18	16	17	12	-16	-17	-7	-13
-11	-4	-6	-21	-27	-27	-40	-12	0	-13	-20	-27	-31	-31	-32	-11	-8	-34	-37	-16
-1	14	-4	-5	22	30	31	42	27	12	16	19	19	15	12	12	8	41	11	-20
13	9	-8	-1	-5	-17	-32	-27	-10	-6	-14	-25	-28	-32	-34	-34	-28	-11	-8	-7
3	0	8	25	16	16	30	28	20	42	64	54	27	12	18	32	32	40	38	25
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-7	0	-8	-14	-15	-12	-1	-1	-1	-2	-9	-9	-5	-1	-1	2	4	4	0	-6
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-3	-2	-5	-8	-12	4	22	16	15	24	18	12	20	1	-18	-7	13	3	-19	18
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-16	-1	12	-9	-10	-2	-7	-3	2	4	6	12	11	3	1	20	19	16	11	0
10	22	23	14	13	13	12	10	11	12	21	24	11	2	-1	-1	-1	0	0	0
-2	-4	-8	-13	-12	4	4	-4	-3	-5	-4	-3	-2	-4	2	6	0	7	13	12
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-6	-13	-5	9	4	3	-6	-7	1	2	4	14	16	5	-7	-3	11	16	16	17
16	7	4	9																

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